

FIFTY-FOURTH ANNUAL REPORT
OF THE BOARD OF TRUSTEES
OF THE
OHIO STATE UNIVERSITY
TO THE GOVERNOR OF OHIO
FOR THE YEAR ENDING JUNE 30
1924

THE OHIO STATE UNIVERSITY

HONORABLE A. V. DONAHEY, *Governor of Ohio, Columbus, Ohio:*

MY DEAR SIR—I have the honor to present to you the annual report of the Board of Trustees of the Ohio State University for the year ending June 30, as required by law.

Yours very truly,

CHARLES F. KETTERING,
Chairman, Board of Trustees

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ANNUAL REPORT TO THE PRESIDENT

HONORABLE CHARLES F. KETTERING, *Chairman of the Board of Trustees,
The Ohio State University:*

DEAR SIR—I have the honor to present through you to the Board of Trustees of the Ohio State University for transmission to the Governor of Ohio, as required by law, the fifty-fourth annual report of the Ohio State University, for the year ending June 30, 1924.

THE BOARD OF TRUSTEES

The most significant event in connection with the Board of Trustees for the year was the death of Dr. Thomas Corwin Mendenhall. At that time a sketch was prepared by the President of the University and adopted by the Board of Trustees and spread upon their minutes. That statement is perhaps sufficiently complete to warrant its insertion in this report as the official recognition of his life and services and a brief statement of the principal facts in his career. The minute is as follows:

The Committee appointed to prepare a suitable minute due to the death of Dr. Mendenhall submitted the following report which was unanimously adopted:

The death of Dr. Thomas Corwin Mendenhall at his home in Ravenna, Ohio, on Saturday, afternoon, March 22, 1924, removed from University circles the last surviving member of the original Faculty of the Ohio State University appointed and elected in 1873.

It is worth while to note in passing that Dr. Mendenhall was the first member elected of the first Faculty of the University. His term of service continued from 1873 until 1878 at which time he became Professor of Physics in the Imperial University of Japan where he served until 1881. His subsequent public service as Superintendent of the United States Coast and Geodetic Survey, as President of Rose Polytechnic Institute, of Worcester Polytechnic Institute, as Superintendent of the United States Weights and Measures, as a member of the United States Light House Board, of the Bering Sea Commission, and of the Commission to determine the boundary line between the United States and Canada, and other public services, and memberships in scientific and honorary societies will be found recorded in Who's Who in America, and in the appropriate official documents reporting upon these public and professional services. This minute, therefore, will pass such matters of record by calling attention to the official sources of information.

Dr. Mendenhall was of Quaker origin, born in Hanoverton, Columbiana County, Ohio, October 4, 1841, and enjoyed only the meager privileges of village and rural schools in those days, together with the simplicity of life characteristic of the stock from which he sprang and the community in which he lived. A good portion of his early boyhood days was spent in the village of Marlborough not far from Ravenna. He attended for a period of time the Normal School under Arthur Holbrook at Lebanon, Warren County, Ohio. His early teaching experience was in Salem and in Middletown, Ohio, where a friendship between Governor James E. Campbell and himself was formed and continued with increasing warmth until his death. In 1868 he was elected to teach in the Central High School which at that time was the only High School in existence in Columbus. He soon became the most outstanding teacher in the city. His elementary education had brought him a good fundamental training in Mathematics and Physics. His power to pursue a subject independently was the key to his progress in both Mathematics and Physics in which subjects he became not only proficient but a recognized authority in the circles of scientific men both in Europe and in America. He demonstrated his own belief that education was acquired chiefly by individual effort. The New York Times in an editorial speaks of Dr. Mendenhall as an international scholar.

During this experience in Columbus he became intimately acquainted with the late Joseph Sullivan, one of the most active and high-minded citizens of the city. This was a

characteristic of Dr. Mendenhall, always to be found in the best circles. The friendship developed was probably the basis on which Mr. Sullivan became the ardent supporter of Dr. Mendenhall as the first professor to be elected to the new Faculty. Later years never dimmed that friendship. Both men agreed substantially in their theories of education. It is easy to understand, therefore, why in 1920 Dr. Mendenhall counted it a rare privilege to provide the Joseph Sullivan medal not only as a contribution to the University in its efforts to encourage men in scientific attainment, but as a tribute of love and respect to the memory of one whose comradeship and friendship had been so significant.

Leaving for the moment the personal qualities of Dr. Mendenhall it may be noted that certain outstanding qualities characterized his life. Among those we may mention:

1. His native ability.
2. His power to develop that ability independent of the usual academic methods since he never graduated from any institution of learning, and
3. His choice of superior men and women as comrades and friends.

These proved a continual stimulus and enabled him to acquire from others in a personal way that peculiar charm and quality of mind and life that cannot be acquired merely from the reading of books, or from listening to a teacher.

It should be noted in passing that Dr. Mendenhall lived through one of the most active periods of our American history. The Civil War came during his young manhood. The publication of "The Origin of Species" by Darwin in 1859 brought him as a young man face to face with this epoch-making publication. In addition to his eager reading of such a book and the discussions which it aroused, his public service enabled him to meet personally a very considerable number of men distinguished in science and in public service. It was during this period that the country was aroused by the post-bellum development of the great west, the expansion of railroads and other methods of transportation, the development of machinery especially in the agricultural world, and the multiplication of inventions having to do with increasing production and with the extension of utilities to the conveniences of modern life. In addition to these more or less mechanical developments there was the great discussion upon science and religion, and the development of a system of free popular education in the public schools together with the birth and growth of the modern State University and Land Grant College. Amid all these and other movements not here recited Dr. Mendenhall grew to his mature manhood steadily achieving a place for himself and becoming not only a scientist of recognized authority but one of the greatest American teachers. His popularity as a speaker before educational and scientific meetings has rarely been equalled. In Teachers' Institutes when available he was a recognized leader.

The fact that he had chosen Physics as his field of study brought him into fundamental relation with the development of the application of electricity which began after the Civil War. The Philadelphia Exposition in 1876 was one of the great outstanding features of that period. Dr. Mendenhall was responsible for the protection of the Washington Monument, Washington, D. C., against damage by lightning. He was a member of the Lighting Commission. His suggestions were not followed in the original plans. Within a short time lightning damaged the monument. It was soon discovered that Dr. Mendenhall was the most intelligent man in the group on the subject of electricity. The matter of protection was turned over to him and now for about 40 years the protection has been perfect. He took great satisfaction in later years in this achievement. Many of the older citizens of Columbus will recall his demonstration at the State House with the pendulum to show the revolution of the earth upon its axis. These incidents are cited for the purpose of intimating a characteristic of Dr. Mendenhall's life, viz., his intense and devoted interest to the application of science in a practical way for the enlightenment of people and the improvement of public service.

The fact that at the close of his service at Worcester in 1901 he was compelled to go to Europe for a period of 11 years in order to recover his health, is quite significant in that it failed to break his interest in science and in public affairs. His happy recovery from this experience at the age of 71 enabled him to spend what to most men is the evening time of life in a most vigorous emphasis of his character and achievement upon the circles in which he moved. While residing in Ravenna he gathered about him small groups of youth from the public schools teaching them Physics and related subjects with all the enthusiasm of his earlier years. His services in rural communities near his home were a delight to him.

It would be useless here to attempt to recite the contacts Dr. Mendenhall enjoyed as a member of various scientific and national organizations, but his presidency of the American Association for the Advancement of Science may be cited as one of the distinguished honors in which he himself found great pleasure as did all his friends. The fact that he was

decorated by the Japanese Government and recognized by their National Education Association may also be cited as significant among other public recognitions. A number of educational institutions in the United States recognized him with appropriate honorary degrees.

Dr. Mendenhall was the author of "A Century of Electricity," of numerous reports of high scientific value, and of communications upon educational topics. His address, read before the Educational Conference last evening, was written in part during the last three or four days of his life when the effects of poison in his system were recognizable in the steadily depleted physical and mental activity.

Among the later public honors which came to Dr. Mendenhall was his appointment as a Trustee of the Ohio State University, June 16, 1919, in which capacity he served until his death as noted above. This appointment came about as a recognition of the first Faculty and of Dr. Mendenhall's distinguished place in Ohio as one of her first citizens. In this capacity he at once renewed his acquaintance with the earlier history of the University and familiarized himself with the new and more modern additions. His participation in the Semicentennial of 1920 was an evidence of his active interest in the development of the University. The published volumes of that occasion of which he was editor by invitation of the Trustees, contain his addresses and suitable reference to his founding of the Sullivant Memorial.

Within the limits of this minute only a brief reference is possible to certain personal qualities and achievements. One cannot fail to note his achievement in the use of pure and undefiled English and the charming style of all his writings. He developed through his reading and his writing a refined taste for the best literature of his own country and took a very keen interest in Oriental life due probably to his residence in Japan. Few men have had a wider opportunity and probably no one has made a better use of his opportunities than did Dr. Mendenhall. Here was a man—well born—of profound but quiet religious life characteristic of the Friends, reared in a rural community with meager educational opportunity, of good stock in his family, of untiring industry and patience in his work, an unusual gift of intellect together with a chastened ambition for public service which led him into fields of great opportunity and of equally great achievement, who became one of the highest types in American citizenship.

His death removed from the citizenship of Ohio one of its most widely known characters and a man whose charming personality endeared him to every circle he entered. To his last day his interest in young people, in teaching, in science, and in education seemed unabated. His memory is a precious legacy of inspiration to all young people who will take the time to examine his career. His services to the University were so evident as to justify the modest statement that we shall not soon again see so charming a man to connect us with the distinguished years when men like Lucius B. Wing, Rutherford B. Hayes, and John T. Mack, not to mention others, graced the Councils of this Board of Trustees.

Minute adopted April 5, 1924.

The fact that the legislature took recess instead of adjourning rendered the usual procedure of the appointment and confirmation of trustees impracticable. Accordingly certain trustees held over beyond the legal term of their office for the reason that successors could not be appointed. The Board of Trustees, therefore, remained with the same membership throughout the year. The record of subsequent changes will be made for the year, 1924-1925.

THE FACULTY

The Faculty for the year has undergone a good many technical changes chiefly promotions within the ranks, but in some outstanding cases new men have been elected to the Faculty whose coming has greatly increased the efficiency of the departments to which they were elected. The policy in recent years has been to put emphasis upon the selection of new men whose education and experience removed as far as possible any uncertainty as to the quality of service they were capable of rendering to the University. This has made it necessary to pay a higher range of salaries to these new appointees than is received by men of equal ability whose services the University has enjoyed for a series of years. This situation is anything but satisfactory. It would be much less satisfactory if the new appointments were on a range lower than

existing salaries. The tendency then would be for the Faculty to deteriorate. The situation is frankly recognized with sincere regret though a general consideration cannot be given to all men and women whose worth is cordially recognized. In addition to this the promotion of younger members of the instructional force, whose efficiency has been tested and proved, has been quite as definitely followed. Notwithstanding these facts there has been a steady flow of desirable teachers to other institutions. This is not altogether an evil since the exchange of professors from university to university carries with it certain definite advantages. Nevertheless the growth of the modern state university has been so rapid that the stability of the Faculty is of greater importance than if the student body was more or less definite and fixed. Growing institutions can ill afford to be constantly changing in the teaching staff. Nevertheless it is highly desirable that the younger men and women who have been trained in our well established universities should find their service in other institutions than the ones in which they have received the major portion of their education, especially of their graduate work. A short term of service in the institution which has educated them is not objectionable, but the free interchange of such young instructors between institutions would probably increase the efficiency of teaching and bring about a common experience in the universities that would be of advantage to all the interests concerned. Whenever these changes are due chiefly, if not entirely, to the lack of funds in one institution or an increased salary in another, the situation leaves something yet to be desired. It is a fine compliment to be called to an established university because of the achievements in a more or less well defined field of learning. It is not altogether so complimentary to think of men transferring simply on the ground of increased salaries. The attention of the State and the legislature as well as of all parties concerned is cordially invited to this situation in the hope that the Ohio State University may steadily approach a position of stability and independence as regards the matter of salary. This has been the chief embarrassment for 25 years of my own experience as administrator in the effort to build along with the Faculty a stable and well organized body of teachers to whom the State could look with satisfaction and assurance.

The proper education of the Faculty in the University is not the least of all the obligations. This applies not only to men and women of long standing but with obvious emphasis to all the younger people who aspire to occupy permanently academic positions of importance. The University exists, of course, primarily and perhaps chiefly for the education of the undergraduate. Nevertheless the graduate work and the constant improvement and development of the teaching body is one of the great and important duties which a modern university should keep well in mind. In the future the universities will probably take this phase of their duties more seriously and see to it that the younger instructors shall be given opportunities to prepare for teaching and shall pursue courses of study not merely for the purpose of widening the horizon of their intelligence but also for increasing their knowledge of the principles and practices most approved in educational circles. A list of the more important changes this year is herewith appended.

NEW APPOINTMENTS—1923-1924

Orville G. Brim, Professor of Principles of Education.
Fred A. Carlson, Assistant Professor of Geography.
E. L. Dakan, Professor of Poultry Husbandry.

Ralph C. Davis, Assistant Professor of Business Organization.
 Jesse E. Day, Assistant Professor of Chemistry.
 Edgar A. Doll, Assistant Professor of Psychology.
 Ernest Feise, Assistant Professor of German.
 Howard C. Greer, Assistant Professor of Accounting.
 Major John N. Hauser, Assistant Professor of Military Science.
 Captain Lewis B. Hershey, Assistant Professor of Military Science.
 James R. Hopkins, Professor of Fine Arts.
 Harry M. Johnson, Assistant Professor of Psychology.
 Gertrude F. Jones, Assistant Professor of Physical Education.
 Richard Kimpton, Assistant Director of Student-health Service.
 Roland E. Kremers, Assistant Professor of Physiological Chemistry.
 Harold H. Maynard, Professor of Business Organization..
 J. Keeney McDowell, Assistant Professor of Landscape Architecture.
 J. Cayce Morrison, Professor of School Administration.
 Milton N. Nelson, Assistant Professor of Business Organization.
 Mark E. Penney, Acting Professor of History of Education.
 F. J. Thimoldi, Assistant Professor of Landscape Architecture.
 John M. Russ, Assistant Professor of Engineering Drawing.
 George H. Sabine, Professor of Philosophy.
 William R. Sears, Professor of Landscape Architecture.
 Captain Robert L. Tavenner, Assistant Professor of Military Science.
 Herbert A. Toops, Assistant Professor of Psychology.
 Colonel Grosvenor L. Townsend, Professor of Military Science.
 James S. Wilson, Assistant Professor of Public Health.
 Albert B. Wolfe, Professor of Economics.

PROMOTIONS—1923-1924

Clarence E. Andrews, Assistant Professor to Professor of English.
 C. L. Arnold, Associate Professor to Professor of Mathematics.
 William M. Barrows, Assistant Professor to Professor of Zoology.
 Vaughn B. Caris, Instructor to Assistant Professor of Mathematics.
 Dwight M. DeLong, Assistant Professor to Professor of Zoology.
 Alice Donnelly, Instructor to Assistant Professor of Home Economics.
 Frederic H. Kreckler, Assistant Professor to Professor of Zoology.
 Joseph W. Leist, Instructor to Assistant Professor of Medicine.
 James O. Lord, Instructor to Assistant Professor of Metallurgy.
 Edmund S. Manson, Jr., Associate Professor to Professor of Astronomy.
 Mary Louise Mark, Assistant Professor to Professor of Sociology.
 J. C. Merrell, Instructor to Assistant Professor of Civil Engineering.
 Harold G. Olsen, Instructor to Assistant Professor of Physical Education.
 Ralph S. Paffenberger, Instructor to Assistant Professor of Engineering Drawing.
 Gladys E. Palmer, Instructor to Assistant Professor of Physical Education.
 Thomas G. Phillips, Assistant Professor to Professor of Agricultural Chemistry.
 Chester O. Reed, Assistant Professor to Professor of Agricultural Engineering.
 J. R. Shank, Assistant Professor to Professor of Civil Engineering.
 R. C. Sloane, Assistant Professor to Professor of Civil Engineering.
 Fred Speer, Instructor to Assistant Professor of Bacteriology.
 Robert B. Stoltz, Assistant Professor to Professor of Dairying.
 William D. Turnbull, Assistant Professor to Professor of Engineering Drawing.
 F. C. Wagenhalls, Instructor to Assistant Professor of Medicine.

THE COLLEGES

The reports of the deans of the several colleges will be found included in this report. Reference to these reports is made for the purpose of directing attention to the more complete statements concerning the activities of these colleges. In these reports there will be found some suggestions as to the experiments in process for the purpose of improving the quality of scholarship among the students. These newer methods are the evidence of a certain amount of dissatisfaction on the part of administrative officers and Faculties

as to the results attained in the modern college and university. It would be extremely unfortunate if such dissatisfaction should ever cease. A half a century ago in some colleges, Faculties were greatly disturbed and quite anxious as to the conduct and attainments of their students. This was a wholesome exercise for the Faculty and in no way interfered with the progress of the student. It did not interfere with his ability to embrace opportunities when he left college for the more active engagement in the world's affairs. The fact that students are mere boys and girls is evidence and assurance that the problems of education will continue to be unsolved and insoluble. It is commendable, however, that every generation of students and Faculties becomes concerned as to the welfare of themselves and the character of the college graduate. There is a tendency, however, to assume that the quantitative theory of education is more important than it really is. There is also a slight tendency to overlook the fact that most of the education of really important people is secured after they have been liberated from the requirements of the university. The University furnishes the basis of education and some training in the methods of education, and some experience in methods of personal attack. Four years, however, or even twice that period would not be sufficient to bring a very large amount of culture or important information. It is gratifying to know, however, that in spite of all our uneasiness the college graduate has learned how to acquire information and how to use his energies quite as well as his teachers are doing. The attitude sometimes discovered on the part of Faculties to the effect that they are superior to their students is quite natural but the superiority often lies in years rather than in any other decisive feature. These Faculties are usually college graduates who have selected a particular calling and who have achieved a certain distinction and success. It is well to keep in mind that other graduates having chosen other callings have achieved a distinction and success quite equal to that of an ordinary member of the Faculty. The opinion is here expressed that the great body of college graduates of this country represent the most satisfying type of American citizenship. The exceptions are so outstanding as to prove the general statement. This fact is of such importance as to suggest a more favorable estimate of the value of the college than is current in the ordinary academic circle.

The colleges of Ohio State University as a group represent a pretty well organized endeavor and have achieved a very high degree of success. The tendency in current reports and especially in publicity concerning universities is to note the exceptional and the unusual and to find if possible a critical attitude toward existing and established institutions. The college either technical, professional, or of liberal education is today the best organized institution known to society for the improvement of the social order. The fact that in the belief of many people a certain amount of undesirable material presents itself from year to year is not so discouraging as many would have us believe. At this point we take the college too seriously and overlook the more important fact that these years of youth are the testing years and that very few organizations may expect anything else than a constant conflict between the ideals of the organization and the actual attainments of the people who enjoy its privileges. The public has a right, therefore, to be highly gratified that the college graduate in the social order is as fine a citizen as he is. It would be well if he could recognize his obligation to the college and his obligation to the public as well as the esteem and admiration of the Faculty.

It is a matter of great satisfaction to state in this report that the administrative officers in the colleges of the Ohio State University are cordially supported by the Faculties in the effort to keep the colleges abreast with the spirit of the times and with the best ideals in the fields of education represented by these colleges. If any criticism were made of the modern college organization, it probably might be that the administration was more solicitous about education in its broader aspect than the Faculties themselves. In universities where departmentalization and specialization have been given large opportunity there is a growing tendency to forget the unity of education and to relate the departments and the specialists to each other in such way as to make a contribution such as specialists and departments are competent to render. There seems oftentimes to be a large amount of unutilized resources. The student himself may not be alert to his opportunity. The professor may not be keen as to his responsibility. Individuality of activity rather than co-operative education tends to express itself. The college curriculum is not yet entirely satisfactory. It never has been so and probably it never may be so because of the variety of desire in the mind of Faculties and of the public. These curricula are changed or modified to some degree practically every year. The conservative elements think they are changed too rapidly. Others think that the changes are not altogether improvements. The fact remains, however, that most of these curricula are the results of a compromise between more or less competitive departments to find place within the limits of four years for adequate expression. The field of education is now so wide and the number of subjects of legitimate study so great, that no student can hope to become acquainted with more than a fraction of the opportunities for education. Amid this great variety it is useless to discuss the comparative merits of the several claimants for the student's time. The important issue is that when introduced to these newer fields of education the student may be given a proper attitude of mind and may be introduced to the proper methods of study and may have some direction in the pursuit of learning that will serve him throughout his lifetime. The college is the great starting point for a career. It is important at this starting point that the student receive wise counsel and achieve a reasonable attitude of mind toward an interpretation of the world as related to his own career and character. A word may be offered as to the tendency to prescribe the course of study. The elective system in vogue quite freely a generation ago has been somewhat restricted in use throughout the country in recent years. Faculties have come to believe that prescribed courses of study are more effective than courses based upon free electives. The group system which prevailed in Ohio State twenty years ago has expressed a certain belief. Colleges engaged in technical or professional education show a marked tendency to prescribe the fundamentals for all students. The world of experience has emphasized this tendency so that today the college represents less of liberty perhaps in choice of studies than it did a decade or two decades ago. The justification of this situation lies in the fact that the schools from the kindergarten to the university constitute the great laboratory of education in which experimentation is absolutely necessary for progress. We are not, therefore, to be discouraged if occasionally an experiment is less satisfactory than we desire. We may trust the Faculties of the country to correct their own errors in due time. Experience still holds sway as the greatest of teachers. Colleges and college organizations are not altogether unresponsive to the dictates and suggestions of experience. The hope for the future, therefore, lies in a free

opportunity for educational experimentation and a sane attitude of mind on the part of College Faculties toward these experiments. A little more study on the part of Faculties in this great field would probably improve the college as an opportunity for education as much as any other one thing that could be suggested.

THE GRADUATE SCHOOL

The report of the Dean of the Graduate School will be found included in this report. It shows an interesting body of statistics especially as to distribution of graduate students and the sources of supply. Quite naturally the largest number would come from the Ohio State University, but it is gratifying to observe that the Ohio Colleges have shown a very commendable increase in the number of students coming to the Ohio State University for graduate work. Ohio Wesleyan University leads the list with 54 graduate students. Ohio University follows with 49. Otterbein College furnishes 26. This wide spread influence of the Graduate School deserves intelligent and sympathetic consideration and approval. There is a tendency in the minds of certain persons to restrict state education to the citizens of the State and their children. This is a conception that cannot possibly be carried into effect without seriously limiting the usefulness and eventually affecting adversely the character of the University itself. The mobility of modern life is so marked that we may expect to find the alumni of any institution pretty widely scattered throughout our own and foreign countries. The children of these ought to return to the alma mater of their parents freely. The University is now putting upon them as upon others a non-resident fee on the theory that all non-residents should pay an extra fee because of their non-residence and for the proper reason that the residents of the State have a natural right to the privileges provided by the State. The theory, however, overlooks the fact that the State itself is the beneficiary in its citizenship of hundreds and thousands of men and women educated outside the commonwealth without any expense to the State in which they have taken up their permanent residence. There is a balance of services, therefore, in the location of alumni that may raise very directly the question whether the State does not owe something to people outside of its own immediate jurisdiction. The fact that Ohio had inferior institutions and, therefore, unattractive to the outside world would be most humiliating. On the other hand the fact that the State has superior institutions and that its leading University offers facilities for education attractive to alumni and their children and to others as well should be given more sympathetic consideration than is current. Especially in the Graduate School where men and women are attracted because of the superior facilities given in departments of learning, the attitude of the State should be a warm cordial welcome. It strikes one as strange that a State should interest itself in attracting industries of one kind and another and overlook the fact that its most important asset is a body of well educated men and women. The attractiveness of this higher education will perhaps do more to bring to the State of Ohio important and valuable citizens than any other procedure. A University is a much more commanding advertisement than the columns of any newspaper that can be bought. The public might, therefore, well be conservative in its tendency to restrict the opportunities for higher education.

The Graduate School at Ohio State University has shown for a series of years a steady and commendable growth in numbers and also a very com-

mendable growth in the better organization of departments in which graduate work has been offered. The gratifying fact that the graduates of Ohio State University are appearing in increasing numbers in University Faculties, in important industries and in the spheres of public education, brings some enthusiasm on the Campus and is commended to the people of Ohio for thoughtful consideration. The reader is referred to the report of the Dean of the Graduate School for a more complete statement.

UNIVERSITY EXTENSION

Since the passage of the Smith-Lever Agricultural Extension Act the University, through the College of Agriculture, has maintained and operated an increasing budget in the interest of agricultural extension. This work has developed until practically every county in the State has had a more or less continuous service in the form of County Agents. The changes are so inevitable that it is not practicable to have 88 counties equipped at one time or for a very long period. As a matter of fact something more than 80 counties are usually equipped and carrying on service. The University has maintained a number of specialists in the several lines of agriculture whose function is to advise and counsel with County Agents and to bring to their assistance such expert advice as they are able to command. This service in the main has been of high character and much appreciated by those to whom it has been rendered. In addition to this the home demonstration service among the women has found an increasing demand. So far as funds would permit appointments have been made in a number of the counties. This service also has proved its value and its acceptability. The rapid changes in appointments due to the demand for the kind of service represented by the County Agent and the Home Demonstration Agent have interfered somewhat with the service but on the whole the situation has been fairly satisfactory. The fact that the statutes authorize and permit the local authorities to appropriate money for this service has increased the amount of money available for the State. The Farm Bureau Movement has also come forward voluntarily with contributions for the purpose of increasing salaries where County Agents or Home Demonstration Agents were so acceptable that their removal would in a measure prevent the continuity of important projects. It has been gratifying to note that the local interests have appreciated the value of these services and have been willing to supplement the revenues available from the Federal Government and the State. The University has set a maximum which it will provide in the matter of salary. This has been due to the necessity of providing service for each county and to the limitation of the funds available. Certain significant changes are taking place in the agricultural situation. The new emphasis upon the importance of marketing and of problems associated with exchange of commodities has made a certain amount of investigation work necessary as a basis on which programs could be carried forward. In the main these co-operative enterprises throughout the State have been helpful to the agricultural interests. In a few instances where lack of financial backing, lack of experience in management, or lack of co-operation on the part of the community have arisen active enterprises have not succeeded as they deserved or as their friends had hoped. Experience, however, will soon bring these methods to a stabilized condition. There is every reason to believe that through the activities of the agricultural extension movement and other sim-

ilar and allied movements, the problems surrounding exchange of commodities and marketing will be so clearly understood as to point the way to the desired improvement.

There is an almost irresistible tendency for extension work in other fields. The College of Education and the College of Commerce and Journalism are both in a position where a growing demand requires attention. This extension work in these cases has to do primarily with increasing the efficiency of teaching in the University. It is strongly believed that extension work and field work on the part of members of the Faculty is important, if not essential, in the development of the proper point of view within the University as well as with a change in directing the attention of business men to the possibility of building a business on a scientific basis. In matters pertaining to education, school surveys have been carried on through the Bureau of Educational Research in such a way as to bring to communities a clear knowledge of the educational situation. These surveys have pointed out the economics possible in a situation and the way towards a better organization of education in the interest of the youth of the community. The ideal of University extension as set up a quarter of a century ago has practically disappeared. As a substitute for it the development of investigation has tended toward a better knowledge of the fundamental problems in both business and education. In addition to this investigation certain courses of instruction for non-residents have been in demand. The University so far has been very conservative in the recognition of such work with credit toward a degree. The reason for such conservatism lies in the fact that non-resident study and non-resident teaching in many cases lack the facilities believed to be necessary for successful study of the majority of the subjects of instruction. There are a few exceptions. There is also the lack of guidance and control possible where students are resident on the Campus and teachers are always available for counsel and advice. The demand for this non-resident instruction seems to increase from year to year. It is probable, therefore, that in the near future the University will be required to give this phase of adult education more attention and consideration than hitherto.

AGRICULTURAL EXTENSION SERVICE

An elaborate report from the Department of Agricultural Extension for the year has been presented to the President. This includes a printed pamphlet of 120 pages and 67 of typewritten matter. The limits to this report would suggest that nothing more than a mere statement can be made concerning this important service. I am submitting, therefore, a few selected portions of the report that will convey to the reader some conception of the organization and extension of this service.

ADMINISTRATION

In making the Director's report of the year's work in Agricultural Extension in Ohio, it seems desirable at the outset to state that this is but a brief review of the many activities carried on during this period. Complete annual reports, containing much more detail and many interesting summaries and illustrations have been made by the members of the staff in the Extension Service. Copies of these reports are on file both in the offices of the Agricultural Extension Service of the Ohio State University and the office of Co-operative Extension Work, United States Department of Agriculture, Washington, D. C. The reports on file include:

Reports of the County Agricultural Agents.

Reports of the County Club Agents.

Reports of the Home Demonstration Agents.

Reports of the District Supervisors of County Agent Work.

Reports of the State Leaders of Boys' and Girls' Club Work.

Report of the State Leader of Home Demonstration Work.

Reports of the Specialist in Agricultural subjects including Farm Crops, Agricultural Engineering, Horticulture, Animal Husbandry, Poultry Husbandry, Vegetable Gardening, Soils, Entomology, Plant Pathology, Dairying, Farm Management, and Marketing.

Reports of the Specialists in Home Economics subjects including Clothing, Home Furnishings, Home Management, Nutrition, and Health.

Report of Publication, Correspondence Courses, Farmers' Institutes, and Farmers' Week.

(1) *The Extension Organization*

Practically no changes in the form of organization to handle extension work have been made during the year. A few changes and additions have been made to the staff, but these did not affect the form of organization. The district supervisors, one for each quarter of the state, continue to co-operate with the director, leaders, and specialists in the development of the extension program in the best possible way. The County Agricultural Agent located in 87 of the Ohio counties is the University's representative in the county and the key man through which all extension activities are carried on. Every effort has been made during the year to develop a program in the counties of interest to the entire farm family with some work going on of interest to men, women, boys, and girls. At the same time, it has been found that the women are often interested in the agricultural projects, that the men are interested in the home economic problems and that both boys and girls take part in pig club work, potato club work, or canning club work, and on down the list.

Director H. C. Ramsower was granted a leave of absence by the University authorities for one year beginning September 1, 1924. He is using this time to study at Harvard University. In his absence, Dean Alfred Vivian is Acting Director, giving certain fixed hours of his time to extension work and doing considerable field work. The entire staff is co-operating with the Dean to see that the work goes forward in the best possible way during Director Ramsower's absence.

Cordial working relations both with all departments of the University and with other organizations within the state interested in agriculture continues to be the rule in Ohio. Indeed, it is due to this fine co-operative spirit that much progress comes in the handling of agricultural problems as they arise. The Experiment Station and the State Department of Agriculture have always been ready to assist the Extension Service. In turn, the Extension Service has co-operated with these departments in their respective fields of work.

Assistance is being given wherever possible and when needed to the county and state Farm Bureau, Grange, the co-operative marketing associations, the breed associations, and other like organizations. In all cases, the Extension Service lends aid to agricultural organization in an educational and advisory capacity. Especially with co-operative marketing, it has been demonstrated that the educational work is one of the most important factors in securing successful results in the end. Progress is evident in co-operative marketing in this state, but many mistakes have been made in formulating plans to develop this work. Mistakes are to be expected in new ventures, but through it all we can see that the wisest policy will be to develop this work conservatively and slowly. The curve will be gradually upward if this is done and there will be less likelihood of sudden drops in the line; the thing that does more than any other one factor to retard the development of both the co-operative organizations and the growth of the business undertaken by them.

The drop in the Farm Bureau membership has been a matter of more or less concern to the Agricultural Extension Service. This has been serious in some counties, although it is believed that even with fewer members neither the educational nor the business program need be retarded. This statement is made with the thought in mind that the best leaders are those still retained in the Farm Bureau membership and thus the work will go on. It is likely that the large Farm Bureau membership was due to the excitement and stimulus of the war years, and that the present numbers in the Farm Bureau will compare favorably with the normal growth of this organization had there been no war. Here again, we believe that a sound, conservative growth in numbers in the Farm Bureau will be more likely to bring success to this organization in the future than a rapid increase in numbers in a very short period. One of the factors which will aid in this constructive growth will be the educational program put on through the Extension Service.

The State Fair Board provides one-half of one of its most desirable buildings for an exhibit from the College of Agriculture and in addition space for state-wide exhibits of the various phases of Boys' and Girls' Club Work. The exhibits are placed under the direction of the Extension Service and represent some outstanding feature of each department of the College. The chief value of the exhibits at the State Fair lies in the advertising value of bringing to the attention of thousands of visitors the work being carried on both at the College and in the field. The club work exhibit is an attractive feature of the fair and it is growing each year. Especially valuable is the demonstration work in canning, clothing, poultry, pig growing, etc., as put on by the champion teams from each county.

No exhibits are sent direct from the College of Agriculture to the county fairs. Assistance is given by the Extension Staff to county agents in preparing suitable exhibits of county extension work. Here again the feature of the county fair is the round-up of Boys' and Girls' Club Work. A representative of the University attends each county fair to help local leaders in setting up the club exhibit, in judging it, and directing the demonstration work put on by the boys and girls.

(2) Sources of Extension Revenue

Revenue for maintenance of the Agricultural Extension Service was obtained from the following sources for the year 1923-1924:

State Appropriation (House Bill No. 622).....	\$227,016.33
Federal Smith-Lever Fund.....	176,106.99
Federal Supplementary Extension Fund.....	52,668.07
United States Department of Agriculture Fund.....	9,900.00
Institute Funds from Counties.....	15,400.00
County Agent Funds from Counties.....	156,500.00
Farm Bureau Funds.....	34,300.00
Total.....	\$671,891.39

The exact total expended from each of these sources together with the classification showing the purposes of the expenditures is given in detail in the separate financial report as required by Section 5 of the Smith-Lever Act.

No new restrictions or new laws were placed on the expenditure of state funds. The state classification was followed in the expenditure of these funds. This did not handicap the use in any way, since these classifications work in well with the Federal Smith-Lever regulations. A large share of the state funds were used to offset the Smith-Lever regulations. The state appropriation was made as a separate appropriation by the Legislature for Agricultural Extension coming to the Ohio State University for this purpose and in addition to the regular University appropriation.

The Federal Smith-Lever and Federal Supplementary Extension Funds were used for projects in agriculture and home economics work, which were agreed upon before the fiscal year began and included in the approved budget. Before the beginning of the year the budget covering all extension work was presented to and approved both by the Board of Trustees of the University and the United States Department of Agriculture. The new classification for the ledger pages in keeping extension accounts seems to be satisfactory.

The fund of \$9900 allotted to Ohio from the United States Department of Agriculture Fund was used to apply on the salaries of co-operative em-

ployees in the state leaders of County Agricultural Agents, Boys' and Girls' Club Agents, and Home Demonstration Agents.

The institute funds from counties were funds regularly received from counties to help support state-aid Farmers' Institutes.

County agent funds from counties includes all funds appropriated by county commissioners to help maintain extension work in the counties. This money is used only to support the worker in the county in which the appropriation is made, and completes the co-operative financial arrangements between national, state, and local governments in supporting the agricultural extension program. All Ohio counties but three are now making definite yearly appropriations. The total of the county funds is gradually increasing, an increase of \$12,700 being made for the year 1923-1924. Since the county appropriations are made only after being requested by the local people, this increase is an indication of the favorable attitude and desires on the part of the farm folks out in the counties.

The figures given under the heading Farm Bureau Funds include only that part of these funds that are being contributed by the local Farm Bureaus as part salary and automobile allowance of a few of the county extension agents. In addition the local Farm Bureau units are aiding materially in a financial way in the support of the county office.

As time goes on, it is likely that the county extension work will be supported more largely from public funds. A few counties are increasing their appropriations, thus relieving the Farm Bureau from contributing so largely. As this is done, more Farm Bureaus will be available to support the business side of the county work.

(3) Additions to Equipment

The offices of the Extension Service have not been changed or enlarged during the year. With the growth of this department there is need for some additional space. Especially is this true of the editorial office, club office, and the mailing room. In the rearrangement of departments of the College of Agriculture, in the near future, it is planned to provide more room for the extension offices. At that time there will be a systematic rearrangement of offices that will tend to increase the efficiency of the work, and at the same time provide adequate room for all members of the staff.

Larger items of equipment purchased during the year included: One multigraph complete, five typewriters including one wide-carriage machine and one Corona typewriter, four 50" flat-top desks, one 50" roll-top desk, five desk chairs, three four-drawer steel letter files, 10 steel transfer file drawers, one blue-print file case, two adjustable typewriter stands, six lantern slide shipping cases, six lantern slide carrying cases, seven brief cases, one Gurley electric current meter, one wading rod, one Singer sewing machine, one electric iron, four pedometers, one Westinghouse battery, eight 400-watt lamps, eight 108-watt lamps, seven automobile tires, and other small equipment.

PUBLICATIONS

(1) The Number and Character of Extension Publications

The following lists of bulletins and circulars give the titles and number of copies of the various publications issued during the year:

AGRICULTURAL COLLEGE EXTENSION SERVICE BULLETINS, VOL. XIX

No.	Subject	No. of Pages	Size of Edition
1	Caring for Cream on the Farm.....	12	15,000
2	Cow Testing Associations in Ohio.....	8	2,500
3	Suggestions for Selecting Exhibits of Corn.....	2	15,000
4	Sweet Clover, What It Is.....	16	15,000
5	Beekeeping in Ohio.....	32	5,000
6	About Perennials.....	20	15,000
7	Poultry Houses and Equipment.....	32	25,000
8	Summer Care of the Growing Stock.....	4	25,000
9	Hog Farrowing House.....	4	25,000
Total.....		130	142,500

BULLETINS REPRINTED

Vol. No.	Subject	No. of Pages	Size of Edition
15 4	Feeding Hens for Egg Production.....	2	10,000
16 5	Baby Chick Troubles.....	4	25,000
17 1	Computing Rations for Dairy Cows.....	15	25,000
18 8	How to Raise the Chicks.....	4	20,000
Total.....		26	80,000

AGRICULTURAL COLLEGE EXTENSION SERVICE CIRCULARS, VOL. IX

No.	Subject	No. of Pages	Size of Edition
1	Farmers' Institutes for 1923-1924.....	124	3,500
2	Farm Accounting in the Rural Schools.....	24	6,000
3	A Complete Farm Record.....	16	26,000
4	Use of Fruits in the Diet.....	2	3,500
5	Use of Vegetables in the Diet.....	2	2,500
6	Sugar and Candy Making.....	2	5,000
7	Something for the Club Members Own Room.....	4	8,000
8	Ways of Preparing Apples.....	2	2,000
9	Some Ways of Preparing Canned Meat.....	2	4,000
10	Sandwiches for the School Lunch.....	2	3,500
11	Some Ways of Preparing Potatoes.....	4	2,500
12	Making a Basket.....	2	8,000
13	Making a Bag from a Ball of Twine.....	2	8,000
14	Making a Strand of Beads.....	2	8,000
15	The Importance of Milk.....	4	6,000
16	Sheep Diseases.....	4	3,000
17	Price List of Home Canned Products.....	2	11,000
18	Potato Club Record Book.....	8	3,000
Total.....		208	113,500

CIRCULARS REPRINTED

Vol. No.	Subject	No. of Pages	Size of Edition
5 28	Pig Club Record Book.....	16	3,000
5 30	Food Club Record Book.....	24	3,000
5 31	Dairy Club (Calf) Record Book.....	16	3,000
5 32	Sheep Club Record Book.....	16	2,000
5 33	Poultry Club Record Book.....	12	8,000
5 35	Beef Club Record Book.....	16	3,000
5 36	Clothing Club Record Book.....	24	14,000
5 52	How to Start in Poultry Club Work.....	4	5,000
5 57	Canning by the Cold Pack Method.....	16	10,000
5 58	Fruit Jellies and Jams.....	4	2,000
5 65	Making and Baking Yeast Bread and Rolls.....	8	3,000
6 8	Potato Club Rules.....	2	3,000
6 11	Pig Club Demonstration Rules.....	2	12,000
6 12-13	Poultry Club Demonstration Rules.....	2	8,000
6 14	Food Club Rules.....	2	20,000
6 15	Clothing Club Rules.....	2	20,000
6 18-25	Making and Baking Quick Breads.....	8	3,000
6 19-21	Planning, Preparing, and Serving Meals.....	8	2,000
6 30	Sanitation—Pig Club.....	4	2,000
6 31	How to Start in Pig Club Work.....	4	3,500
6 32	Pig Feeding.....	4	8,000
6 41	Exhibiting—Poultry.....	4	1,000
7 3	Canning Poultry—Cold Pack Method.....	4	10,000
8 6	First Year Clothing Demonstration.....	24	12,000
8 9	Suggestions on Food and Clothing Team.....	20	2,000
8 10	Second Year Clothing Demonstration.....	20	4,000
8 11	Third Year Clothing Demonstration.....	20	2,000
8 12	Fourth Year Clothing Demonstration.....	16	1,000
Total.....		310	164,500

PUBLICATIONS OTHER THAN BULLETINS AND CIRCULARS

Name of Publication and of Series	No.	Total No. of Pages	Total No. of Pieces
Extension Service News.....	13	104	118,000
Crop Talk.....	11	44	27,000
Timely Soil Topics.....	12	48	108,000
Record of the Farm Poultry Flock.....	1	45	3,000
Farmers' Week Programs.....	1	20	10,000
County Agent Handbook—(Additional Pages).....	1	91	500
Rules and Regulations—Ohio Ten Litter Club.....	1	2	2,500
Suggested Plans for Local Clothing Clubs.....	1	4	2,000
Suggested Plans for Local Food Clubs.....	1	4	2,000
Plans for Organization—Boys' and Girls' Clubs.....	1	8	8,000
Farm-Home Account Book.....	1	48	100
Home Demonstration Clothing Project No. 1.....	1	4	12,500
Home Demonstration Clothing Project No. 2.....	1	8	12,500
Home Demonstration Clothing Project No. 3.....	1	4	12,500
Fourth Annual Pastors' School.....	1	4	3,500
Farmers' Institute Program.....	1	4	281,600
Miscellaneous Small Printing Farmers' Week.....	10	35	15,900
Total.....	59	477	619,600

TITLE AND DATE OF EACH TIMELY SOIL TOPIC

No.	Month	Title
62	July.....	Subsurface Packing
63	August.....	Home Mixing Fertilizer
64	September.....	Growing the Right Legume
65	October.....	Sweet Clover for Soil Improvement
66	November.....	Getting a Stand of Clover
67	December.....	Japan Clover
68	January.....	White Clover
69	February.....	Mammoth Red Clover
70	March.....	Permanent Pasture Economy
71	April.....	The Soybean and Soil Improvement
72	May.....	Fertilizer Practices on Livestock Farms
73	June.....	Good Fertilizer Practice

TITLE AND DATE OF EACH CROP TALK

No.	Month	Title
1	August.....	Harvesting Soybeans for Seed
2	September.....	Insure Your Next Year's Corn Crop
3	October.....	Selecting Corn for the Show
4	November.....	Uses of Soybean Seed
5	December.....	Legume Inoculation
6	January.....	Growing Silage Corn
7	February.....	Culling Seed Corn
8	March.....	Varieties of Soybeans for Ohio
9	April.....	Planting and Cultivating Soybeans
10	May.....	The Sugar Beet in Ohio
11	June.....	Varieties of Wheat for Ohio

FARMERS' WEEK

The twelfth annual Farmers' Week was held on the University campus on February 4-8, 1924. The number in attendance totaled 4901. Of this number 3481 were men and 1420 were women. All of the 88 counties in the state as well as several other states were represented. The 1924 attendance was 241 greater than in 1923.

Farmers' Week is held annually under the direction of the Extension Service. All the facilities of the College of Agriculture are turned to making the week of lectures, demonstrations, and shows one of profit to the farm folks who attend. Each department prepares a definite program, arranging topics of timely interest and co-operating with one another in presenting the best possible meetings. Many agricultural organizations met during the week to discuss problems of interest. A corn and grain show, egg show, and apple show were held, providing a feature enjoyed by the visitors before and after and between meetings.

The feature event of Farmers' Week in 1924 was the schedule of meetings to discuss Ohio's Rural Program. Prominent speakers reviewed the agricul-

tural advances of the past half century, and then others foretold the possibilities in the next 25 years. Out of it all came ideas that were invaluable to the College of Agriculture in planning for the future. The more complete report of this conference has been made a part of this report and reference to it will disclose many interesting statements.

CORRESPONDENCE COURSES

A review of reports shows that 8570 Correspondence Course Lessons were mailed out in 1924. The total returned was 5888. The courses given covered the subjects of Soil Fertility, Orchard Fruits, Vegetable Gardening, Corn Culture, Alfalfa Culture, Clover Culture, Grasses, Potato Culture Tobacco Culture, Study of Trees, Poultry Farming, Sheep Farming, Dairy Farming, Beekeeping, Farm Water Supply, Concrete Work, Farm Power, Farm Lighting, Farm Buildings, Farm Accounts, Swine Farming, Small Fruits, Small Grains, and Newswriting. The most popular courses were Poultry Farming, Dairy Farming, Newswriting, Orchard Fruits, and Vegetable Gardening, in the order named. Particular interest was taken in the course in Newswriting, which is mostly taken up by correspondents, county agents, and others who make immediate use of their information in preparing copy for the local papers.

GENERAL ADMINISTRATIVE ACTIVITIES

PHYSICAL EDUCATION

It happens that the Department of Physical Education both for men and for women is administered directly and immediately through the President's office. This brings all the problems of Physical Education, including athletics, to the President's office for consideration and administration.

It is worth while here to direct attention to the fact that for some years the Department of Physical Education has sought to develop a program that should enlist the activities and interests over at least a part of the college career of all students both men and women. The required work in the freshman year covers physical examination, courses in hygiene and personal health, and such general instruction as should fit a student to become an intelligent citizen capable of taking reasonable care of his own health. There is in addition a certain amount of required work in the freshman year. Facilities are offered for continuing instruction and activity in physical education throughout the college course. Special attention is directed to corrective exercises and an effort is made to segregate individual cases in such manner as to insure improvement in the condition of the body and we are glad to report in a considerable number of cases restoration to normal conditions. Medical service is provided for both men and women through the fact that a physician for the young men and a woman physician for the young women are in service in the Department of Physical Education. This fact insures reasonable and professional attention to the problems of physical education as they develop. The department also carries what is known as intramural activities. For the past year more than 4000 students engaged in this wholesome and desirable activity. For the first time a complete curriculum of four years is now in operation looking toward the preparation of teachers of physical education in our public high schools. In addition to these aims the department of physical education strives to keep such a program of activities before the students as will create in them a desire for healthful out of door life in subsequent years. Accordingly there is provided for both young men and young women a considerable amount of recreative activity out of doors during the portions of the year when weather conditions will permit. The fact that about 100 acres have been set aside in addition to the ordinary campus opportunities for these out

door activities will intimate to educators at least something of the extent of the program in physical education. A current fallacy lies in the assumption that the department of physical education is chiefly engaged in what the public mind regards as athletics. The Faculty for physical education, both for men and women, has been selected with as much care as in any other educational division of the University and with the definite conception in mind that physical education constitutes a broad basic preparation for a stable and progressive college career.

ATHLETICS

Athletics at the Ohio State University are a sub-division of the larger field of physical education. The current criticism that athletics is in control of the college and university throughout the country could not be well sustained at Ohio State University. The Department of Physical Education provides for both young men and young women the largest possible variety of games, physical activities and develops a large amount of competitive recreative sports of which the public at large learns but little. It would be well if the university itself and its immediate circle of friends could be made more intelligent upon the large amount of physical education service rendered as compared to the smaller amount of competitive intercollegiate athletics. It is true that this intercollegiate phase attracts public attention and draws great crowds of people at the time of the games, but it is also true that this feature of college life consumes less of the plan and energy of the department than the ordinary everyday program for the physical education and development of the students. The student mind is much less occupied with athletics than the popular conception assumes. There are other interests quite as gripping upon the intellect and social tendencies of students. The men and women engaged in the field of physical education deserve high commendation for their devotion to the ideals of physical education quite as much as for the service they render in the intercollegiate fields. The high character of these people assures the university not only of efficient service but has proved to be a protection against excesses of all kinds that lie in the minds of people who are critical toward intercollegiate athletics. The Ohio State University has been singularly free from the objectionable features and the excessive features so frequently charged against modern education.

It should be noted as a matter of information that the organization at Ohio State University places physical education, including athletics, under the immediate and direct control of the Board of Trustees. The President of the University is responsible for nominating the Faculty members of the Athletic Board. The head of the Department of Physical Education is immediately and directly responsible to the President. The Athletic Board itself is accountable to the Board of Trustees for all its activities and submits an annual report in addition to the occasional reports requested or desired as information in the President's office. Throughout the country the President of the University is held more responsible for intercollegiate athletics than any other one person about the institution. At the Ohio State University the organization is such that the President supported by the Trustees has more immediate command of the Department of Physical Education than he has of many of the other educational divisions of the University. This statement is made in order to correct in the minds of persons on the campus as well as in the minds of citizens outside the campus, a certain misapprehension as to the status and responsibility of university athletics.

STUDENT HEALTH SERVICE

Closely related to the field of physical education is the Department of Student Health Service. This service for some years has been maintained as a free contribution to the student body both men and women in the matter of advice and immediate first aid service. An office with two physicians and a competent nurse is in attendance throughout the day and to these people students go freely for such counsel and advice as may be needed. This service is intermediate between the physical education activities and the College of Medicine where professional instruction, hospital care, and other facilities are made available in the case of any emergencies or ordinary necessity for surgical or medical attention. The report of Dr. Wingert, in charge of this service, included in this report, will reveal something of the nature of the service and the extent of the service as rendered. The outstanding feature of this service would not ordinarily be in the mind of an observer. Students having available and using the Department of Student Health Service are saved a considerable amount of time as well as absenteeism from university requirements. They are also pointed to methods of prevention and early attention given to difficulties that might otherwise prove serious. The experience of some years has more than justified the existence and maintenance of this service.

THE DEAN OF WOMEN

The service in this office comprises the Dean of Women, who has general charge of student affairs for the young women, an Assistant Dean of Women who is in immediate charge of the housing problem, some student service and the office stenographer. This office keeps a complete record of all the women students and provides for oversight, counsel, and advice. There is an element of control, through the Dean's office some of which is directed through student agencies and organizations as provided in the rules of the University. The housing problem has been brought to a very satisfactory condition. This involved years of patient and intelligent attention to the experiences of students, especially the relations to the proprietors or managers of buildings prepared for the accommodation of students and the tendency to migrate presented difficulties not easy of solution. The ordinary student seems to lack an adequate sense of contractual responsibility and fails to appreciate the confusion arising from frequent changes in residence. It is satisfying to report that steady progress has been made in improving the housing conditions of the young women of the university. The Dean of Women is the chief adviser and counselor of the women students and occupies one of the most difficult and critical positions of any member of the university staff. The responsibility of such an office is far beyond that of the ordinary Faculty member. The difficulties of the situation are more acute than those presenting themselves to the ordinary Dean in his administering of a college. The fact that the facilities for office space and other equipment of the Dean's office has been somewhat meagre has brought only regret to the mind of the President. The efficiency of the Dean of Women, the Assistant Dean of Women and all engaged in this division of university activities deserve high commendation.

POMERENE HALL

The erection of a portion of Pomerene Hall increased greatly the physical facilities for the young women. The fact that only a portion of the building is

completed and that the remainder of the building must wait for two years more or less is not mentioned as a matter of discouragement but rather as an explanation of the fact that the facilities are admittedly inadequate. This condition makes the administration, of course, more difficult. The equipment and furnishing of this building was at private expense. These contributions from alumni and friends were expended in an equipment much more elegant and expensive than would have been possible if the building had been furnished at the expense of the state. The results, however, are gratifying to all who have had occasion to enjoy the facilities provided. The portion of the building now provided undertakes, however, in a degree to furnish the most important parts of the program that will be put into effect when the building shall have been completed. The gymnasium features are already taxed beyond their limit. The portion of the building devoted to social activities and a headquarters for the young women prove to be a gratifying feature of student life. A large number of social events are given opportunity during the year. The facilities for administration of necessity are limited.

The direction and control of Pomerene Hall is in the hands of what is known as the Pomerene Board of Control, appointed by the President of the University. This Board represents the Faculty, the alumni, and the student body. They employ a hostess whose chief function is to have charge of the social activities of the building, to see that every facility available may be utilized for the convenience and comfort of all participants. The hostess is under the direction of the Board of Control and performs such duties as the Board may assign. The social features of the building are distinct and separate from those of the Department of Physical Education for Women. The anticipated completion of the building will add some features not now in operation and also provide somewhat more adequately for the administration. The hope is entertained that the confusion occasionally arising from the incompleteness of the building will disappear.

THE STUDENT AUDITOR

There appeared in the annual report for last year a statement concerning the function of this office under the direction of Miss Edith M. Auch and the first annual report presented all the services rendered. The second annual report is presented herewith and constitutes a part of the appendix to this report. The situation has remained substantially as last year with the exception that the service has increased both in quantity and in acceptability. This relatively new factor in university administration has been wisely directed and has proved to be a distinctive service of very high quality. The development of the service has been determined by the experience of the office and of the organizations which the office undertakes to serve. No previous experience was available and no effort was made to set up in a hard and fast way any regulation that could not be adjusted from time to time as the service demanded. It is gratifying to report that the individual students and organizations served by this office have found it most satisfactory.

THE LIBRARY

The report of the Library found in the appendix provides detailed information about funds, purchase of books and other interesting items. It is appropriate here to call attention to a few items briefly as suggesting the service rendered to the University by the Library. First of all the number of books recorded June 30, 1924, was 247,953 volumes. This number sounds rather

small to people who deal with the largest libraries of the country and rather large to the people who are accustomed to the smaller libraries. The amount of money available for expenditure from year to year is not sufficient to meet anything like the sum total of legitimate requests made by so large a university community. The one encouraging feature is that there is always something available for the purchase of books and that the Library cannot very well seriously deteriorate.

In the second place attention should be drawn to the necessity of duplicate volumes and of a large number of duplicates reaching as high as 50 copies of a single book. This grows out of the increasing reference work required by teachers of students in the freshman and sophomore years.

In the third place it is important to note the increasing demand made upon library funds by technical and professional magazines. These contain much of the most recent material of important character and often exceed in value books written upon the same subjects.

A fourth consideration is the importance of a highly organized service of expert character in making a library available and ready for service. There ought to be in every large library a group of people in the reference department whose knowledge of the situation in the book world surpasses the information of any members of the Faculty. It should be the business of these people to give most of their time to the study of the publications of the year and to contributions made which libraries should have.

A further consideration is that the endowment of a library is one of the most important suggestions that can be offered to people having adequate incomes. In a very large sense the library of a generation represents its active progress. Every teacher should have opportunity for access to such a collection of books and should have them so well classified as to make it unnecessary to spend much time in search. The expert service of the reference department should always be sought and should be prepared to meet all reasonable inquiries.

The outstanding feature of the library situation at Ohio State University in recent years is the development of the so-called departmental library. All the new buildings recently erected being fireproof have made provision for departmental libraries involving perhaps several thousand volumes in each case. This greatly relieves the pressure for space in the central building, but it involves a scattered administration, increased expense, and raises some difficulties of administration inherent in the situation. Such departmental libraries are defended on the ground that being near to the departments interested a greater use can be made of the books available than if the same facilities were offered in the central library building. On the other hand a person who does not acquaint himself with the facilities of the central library misses a very important factor in his own education. There are so many things about a university that tend to destroy the development of good taste, or of a general culture, of interest in books, that one regrets oftentimes the careless manner in which many people read a book. Few students read a book for the pleasure of reading it, or for the joy of participating in the leisurely and thoughtful consideration of a great theme. Our education is a little too rapid and the demands upon readers are a little too exacting to make it possible to cultivate a love of reading for the content of what is read, or a leisurely habit of following the thinking of constructive minds in their greatest books. The modern life has probably overworked the theory that a library in its or-

ganization is a place for the purpose of having time and increasing the efficiency of a person whose aim is chiefly to accomplish a grade in a study or a degree in an institution.

The future will probably develop a different conception of the library. We are not operating as universities operated a generation ago. We are engaged in a great experiment. Our generation seems to be patient with the endeavor to develop a high degree of service. The library will be the one factor about a university most liable to serious revision as to the purpose and method of administration. The old idea that the library is a place of leisurely pursuit of learning has disappeared. It is now an organization of haste and hurry to secure immediate results. Whether this conception develops the desired love of learning and of books we shall probably discover within a generation. During these years the function of the library as well as the kind of a library the modern university needs will be the subject of much discussion. It is gratifying, however, in spite of all the theories concerning libraries that the students do handle the books in some way and that they do read a certain number of them and that they are becoming in a superficial way at least familiar with the fact that books and magazines are the sources of supply for the kind of discussion and information necessary for a person who desires to be equipped to meet the problems of modern life.

RELIGIOUS ACTIVITIES AND OPPORTUNITIES

One of the characteristic and influential features of the modern state university is the tendency toward a better organization of student forces in the interest of religious activities, Bible study, and better social standards. In practically every state university of the country a very earnest effort is made to provide such facilities as will render it relatively easy for students to maintain and develop their religious habits and activities parallel with their ordinary educational activities. The provision by Ohio State University for physical education and the facilities at Ohio Union and Pomerene Hall have modified the programs of the Y. M. C. A. and Y. W. C. A. in a degree. This has released certain resources, however, to the development of Bible study classes through the co-operation of student pastors and Christian associations. It has also enabled these religious forces to concentrate their efforts upon contacts with individual students and with student organizations. These movements are of fundamental importance to student life and furnish opportunity for the normal development of the efficiency of the ordinary young man or young woman in such service as the modern church requires. It would be a very narrow conception of education for any student to assume that he might omit from his college career any reference to the religious and social activities in which he will probably engage after his college career has been completed. Modern society as a whole makes large demands upon the time of men and women for service in the fields covered by the church and in the fields of civic and social service in every well organized community. There are certain courses chiefly in the fields of history, economics, sociology, and psychology, where the student may find a general preparation for participation in the activities of society. The mistake is too frequently made by assuming that the complete function of education has been exercised when education in science, or history, or agriculture, or engineering, or law has been reasonably well completed. Participation in games and sports is quite natural and should always be encouraged. The mistake, however, is to overlook the importance

of religious and social activities as an essential equipment for efficient living in modern society. Church attendance upon the part of students is creditable but not altogether satisfactory. The voluntary activities in such organizations as the Student Social Center, maintained by the Methodist Episcopal Church, have proved very fruitful of good results. It is not at all necessary for one to burden his mind with any exaggerated idea of interference with the liberty of students or any threatened invasion of the rights of State by religious activities. The State is not at all interested in particular churches. It has no immediate or direct interest in promoting certain types or forms of religious belief. The State, however, is profoundly interested in the development of religion and of sound morals. The frequently quoted statement from the Ordinance of 1787 that "religion and morality being essential to good government should not lose its place in the consciousness of the people occupying the Northwest Territory." The University is not called upon to support religion. On the other hand it has no call to discourage it. It has no call to assume an attitude of hostility but every reason for encouraging the type of life which has made the best features of modern civilization. The University, therefore, has nothing but welcome and gratitude for the generous services rendered by all the religious and social agencies on the campus who seek to improve religious conditions, moral standards, and social life among the students.

THE OHIO STATE UNIVERSITY ASSOCIATION

This association under the competent and efficient leadership of Mr. J. L. Morrill has met all the requirements that could well be mentioned. The magazine published is one of the very best in circulation and speaks for the efficiency of the office and of all service associated with it. This magazine itself is a sufficient warrant for membership in the association by all graduates and by all former students whose attendance has been long enough to arouse in them any interest in university activities. In addition to the office service and the Monthly, Mr. Morrill has been able to make contacts with local alumni associations, to assist in their programs of work, and in general to keep alive and active the interest of alumni. His service to the senior class from year to year has proved to be of high value. The University continues to make a certain grant of money from year to year in recognition of the services suggested above and of the further fact that the alumni office renders a distinct service in keeping the alumni roll and providing the records for the publication of the alumni directory. The time should come, and probably will come, when the alumni will be able through their own activities to finance in a satisfactory way projects that are developed from time to time through the office of the secretary. The University has now reached a stage in its development where the kindly sentiment of the alumni should find expression in a more substantial way and where alumni should assume the responsibility of providing for University needs not always possible through the ordinary channels of support. The magnitude of the work of the University grows and with it the opportunity offers itself for alumni endowments and alumni provision for many features of University life that would be highly appreciated and that are of the highest importance. It is doubtful whether the modern state university can ever meet in a satisfactory way all the demands upon it unless alumni contributions supplement the support of the state in a very substantial way. The hope is here expressed that in the future the hearts of the alumni will

set aside a portion of their accumulated estates to the further endowment and support of the University. Such enterprise should be undertaken after a study of the situation and possibly conferences with the President or other members of the University who are advised as to recognized needs. The policy of the University in the future, therefore, may be widely influenced by the proper assignment of endowment funds or maintenance funds through the intelligent support of alumni.

PUBLICITY

Under the leadership of Mr. J. E. Pollard the University News Bureau has been organized and developed in a manner highly satisfying to those who have observed the progress made. In the first place this publicity has led to responsible utterances. These responsible utterances in turn have attracted the attention of the Faculty and as a result a willingness and desire for responsible publicity concerning important matters under development on the Campus. The departments have seen that a modest and responsible statement as to the activities of a department is appreciated all around the Campus and makes us better acquainted with our own daily life. The Bureau, therefore, from the standpoint of the Campus is entitled to favorable comment and appreciation. Another feature has been the distribution of the service in such way as to bring to communities emphasis upon the things that were of local interest. Reference to the report of Mr. Pollard submitted with this report will interest those who desire to see a comparison between the amount of publicity given to the various phases of college life as compared with, or contrasted with, the amount of news that may be called strictly athletic.

Complaints are frequently heard concerning the character of the publicity in the daily press regarding colleges and universities. There has been some ground for adverse criticism. It is gratifying to recognize that the Ohio State University has had as little of that kind of publicity as any important institution in the country. On the other hand through the various channels of publicity it may be said that every year there is provided a large amount of wholesome, instructive, and stimulating reading. The services of Mr. Pollard deserve from everybody what they have from the President's office a very keen appreciation.

OHIO UNION

This organization continues to function in a very satisfactory manner. The building has provided for a series of years a social headquarters for the students and provision for their needs in a very satisfactorily conducted dining room. The Union has carried this from the very beginning without expense to the State or University. The service it renders is not easily tabulated in any report. The management through the Board of Control has been thoughtful and careful. Indeed the management has been so wise that very few acute questions have arisen since the construction of the building. The University is receiving through this organization a service both necessary and convenient. The State should recognize with gratitude the value of this institution.

The use of these facilities by students has been so extensive as to raise very definitely the question whether the time has not arrived when the present facilities should be enlarged by the erection of a new modern and adequate building. Very little adverse criticism can be offered to the present building. When erected it was believed to be an unusually fine provision. There is no

reason now to change that belief. Experience, however, has demonstrated its inadequacy. The influence of the building and its management have been so wholesome and in every way so desirable as to warrant the utmost confidence on the part of the State and of the University in its management and in the future. Within a reasonable time it is hoped that a building whose provisions would be equal to the new requirements and demands may be erected. A high appreciation of the service rendered constitutes a sound warrant for a new and adequate building.

THE SUMMER QUARTER

It should be clearly understood that since the University has entered upon the Four-quarter Plan the Summer Quarter is one of the four Quarters and offers all the facilities for education that seem to be in current demand. A considerable number of students accommodate themselves to this experience and carry on their work thus enabling them to receive their degree a little earlier than otherwise. The teachers of the State find this Summer Quarter especially convenient for pursuing their studies either for the undergraduate or graduate degrees. It is worth while to note that the attendance at this Summer Quarter steadily increases. The enrollment for the Summer Quarter of 1923 reached 2404. Of this number there were 594 persons enrolled as graduate students. At the close of the Summer Quarter in 1923, 166 persons received degrees. The date of writing this report enables me to state that at the close of the Summer Quarter in 1924, 231 persons received degrees. The custom has now developed for a Quarterly Convocation at which degrees are granted. Experience shows that several hundred persons receive their degrees either in August, December, or March. The effect of this is to reduce the number in June, but also to distribute to the convenience of many students the work of the year. The problem of the future will be to increase the courses offered for the purpose of encouraging students to take advantage of the Summer Quarter. Tradition has so controlled us in the matter of education as well as in our general social habits as to make it difficult to readjust the program of the ordinary individual. If the American people knew how to use a vacation we should probably reach the same results in a shorter period of time. The English operate their universities 26 weeks each year. The American universities operate not less than 34 weeks and usually 36 weeks not counting the Summer terms or Quarter. The English people somehow manage to educate themselves as thoroughly as the American people. The student there uses his vacation for reading and study and comes up to the university largely for guidance and direction, further reading, attendance at lectures, work in laboratories and his several examinations. The American student ordinarily throws his books to the winds, forsakes any educational pursuits and spends his vacation time either in earning money, in the pursuit of the pleasures of summer resorts, or in some other less desirable manner. One of the great reforms in education will arrive when the American student learns how to use his vacation periods. The Summer Quarter is in a way a substitute for this situation. We might well abandon much of our schedule program if the American student could cherish an earnest desire to make progress in his own education. The fact that he desires credit for everything he does and that he does only what the school authorities require him to do and that he is satisfied when he has met the fixed requirements will probably suggest that education on the line of least resistance or to the point of minimum achievement is not altogether satisfactory. The public mind as it becomes more educated

will probably do what a few of the best families now attempt. They will try to make education the chief business of young men and of young women and then develop a taste for an intellectual life that will make it impossible to cease educational processes simply because men and women will arrive of necessity at the age of maturity. The tendency to schedule our educational processes, to standardize them in point of time and requirements, and to formalize all the educational processes has probably defeated some of the finest results in education. It certainly has a tendency to keep out of the mind of the youth the larger vision of education and the fact that 90 per cent of all education must proceed from the individual and not be handed down from the teacher.

The Summer Quarter under all the conditions of modern education is steadily gaining place and will probably mark one of the distinct advances in higher education for the future. One of the great issues before every university is to meet the conditions of the times. The university must adapt its methods to the economic and social conditions of society. These considerations more than anything else have made the Summer Quarter a desirable addition to our educational program.

THE MAILING SERVICE

This is one of the service activities about which most people know very little because of the quiet character of the work and the everyday assumption that things are going along about as usual. A few statistical statements, therefore, are presented simply to intimate some of the phases of this work that might interest people as a matter of information. The labor cost of this service is \$1380.37 for the year. This does not include the salary of the person in charge. The outgoing mail, by which is meant that which leaves the Campus, described in pounds was 67,261 pounds for the year. The envelopes addressed in the mailing room for outside offices numbered 72,000. There were 21,000 stencils cut and filed.

In addition to this service there is the Campus mail. This is an effort to deliver to every building on the Campus mail at intervals during the day as a matter of convenience. The average daily complete delivery was $3 \frac{3}{5}$ times per day; the special deliveries were $3 \frac{4}{5}$ times per day. This constitutes a service between the hours of 8:30 and 4:30 which makes the delivery of mail within the Campus limits prompt and unusually convenient. The service was operated for 308 days of the year. This covered practically all the time when mail service was regarded as a necessity within the boundaries of the Campus. There were 1108 complete deliveries, i. e., 1108 circuits of the Campus made by the messenger. There were 1167 special deliveries. The total number of pieces of mail delivered for the year was 690,725. This service runs heaviest in the month of May as would be expected, although the largest single day service would be found about a week prior to commencement. The average daily mail of the University comprises 2240 pieces. The average daily mileage of the mail messenger is $16 \frac{2}{10}$ miles.

It will be of interest possibly to bring attention to the number of guide calls from six or seven of the offices. The total number is 4526 for the year. Of this number the Registrar's office used 1169 calls; the Secretary's office 1135, and the President's office 1031.

This service brings to attention the multiplicity of details constantly in action in order to keep the machinery of education in somewhat regular motion.

GIFTS

On page 10 of the Financial Report will be found a detailed statement of gifts amounting to \$14,582.55 for the year. It is appropriate here to remark that the University is grateful for all these expressions of goodwill and for the interest developed among friends and alumni through these gifts. The hope is cherished that the future will record a steady growth in the matter of giving to the University. There is a splendid opportunity in this connection to do the beautiful thing and thereby perpetuate an influence free from sordid motives or sinister influences. These gifts suggest a stream of living water carrying life and happiness throughout its entire course. The gratifying truth is that these beneficent influences touch the lives of those worthy among the students.

ENROLLMENT, STATISTICS, AND DEGREES

Reference to Appendix 6 will disclose the fact that the total enrollment for the year reached 10,488 students. The analysis of this student body is well presented in the appendix referred to and needs but little further comment. There is a steady enrollment in the technical courses of the University. The newer phase of education, as represented in the College of Commerce and Journalism, has met with an unexpected enrollment. If the present conditions continue this college will be one of the two or three largest enrollments in the University. The College of Education continues to increase its roll. The College of Arts, Philosophy, and Science remains the largest enrollment in the University and probably will always continue to maintain that position. The fact that the professional schools now require two years of collegiate preparation makes the College of Liberal Arts the natural place where such preliminary education may be secured. In addition to these features there is coming to be a very great increase of public sentiment in favor of what the public thinks of as a general education for an increasing number of people. The rumors and interviews over the country on the matter of college attendance have been directed chiefly to the College of Liberal Arts. Two or three fundamental issues seem to be overlooked. No generation of educated people will ever consent to have its own children denied the privilege of an education equal to that of their parents unless through circumstances beyond control. The atmosphere of the United States in addition to this creates among families where education has not been enjoyed an irresistible desire to see that their children enjoy the privileges which were not available for the parents. In addition to these considerations the State is constantly improving the educational facilities in the public schools and thus making it possible for an increasing number to go on with advanced education if they so desire. The current discussion to the effect that too many people are entering our colleges is in a large measure a misapprehension. The real difficulty is that our modern life has provided for a great onward movement in education in the lower ranges and has not met the demand in the higher ranges with an equally generous provision. The public school budgets of the United States are conclusive evidence that the people believe in extending the facilities for education. The problem of the universities will not be that of eliminating students but of making provision for the increasing numbers. No hurdles erected by legislatures, or faculties, will ever succeed in any important limitation in student enrollment. The process of elimination is a small factor in the large movement for higher education. So long as the college graduate is much less

than 10 per cent of the entire population there will be abundant opportunity to absorb a much larger number than hitherto. The enrollment at Ohio State University is due for a steady increase for years to come. Nothing less than a calamity can prevent such increase. The war showed its influence for two years or more, but immediately thereafter the attendance increased in a very marked manner. There is no evidence today of a decline in any of the factors that have brought about this increased enrollment.

A glance at the statistics presented in the form of appendices to this report will convince any one that the Ohio State University is rendering a very important service to a great variety of people within the commonwealth. This is one of the most hopeful features of modern democracy. Even though one-third of these people should fail to meet the requirements for advanced education society would not be damaged thereby. Too much regard is apt to be given to the character of the institution and too little consideration given to the character of the teacher and the welfare of the student. The failures of students are chiefly due to the students but no complete examination will relieve the teaching body from a certain responsibility. The fact that this responsibility is not often located produces a certain state of mind among intelligent people and raises distinctly the issue whether our University Faculties are not much more responsible for the quality of their teaching than they have hitherto assumed. No educational system should relieve the student from a full measure of responsibility nor should the teacher himself escape a critical judgment as to his ability to inspire and lead young men and women of some promise and some aspiration.

The academic year has carried the usual routine much of which is inevitable but nevertheless effective in accomplishing the great results in education which cannot be completely or accurately tabulated. The day by day devotion to duty on the part of a community of officers, teachers, and employees is a wholesome sight in the greater community of which the University is a part, and demonstrates the superior value of the things that pertain to the mind and the spirit. The President desires to record his appreciation and gratitude for all the courtesies received and for the co-operative spirit shown in every department of the University life.

There is submitted as usual with this report the statistical statements required by law, a summary of the financial report, the reports from the several colleges and departments and from many of the other divisions of the University life.

Very respectfully,

W. O. THOMPSON,
President.

ANNUAL REPORT OF THE COLLEGE OF AGRICULTURE

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report from the College of Agriculture for the year ending June 30, 1924.

Following my custom of former years, I am transmitting to you the reports of the several departments just as they were presented to me, partly so that you may have direct information regarding the departments and the personal opinions of the department heads, but, more particularly, in order that these reports may be made a part of the permanent files and may be preserved in the archives of the University. The year has, upon the whole, been a successful one for the College, although there have been few developments calling for special comment. The Faculty has continued its interest in the study of methods of improving classroom instruction. The comment of the students in the upper classes leads me to believe that this study has been reflected in the methods actually used in the classroom. It is worthy of note, also, that the student grades as a whole for the year have been unusually high, indicating either that the methods of instruction have been materially improved, or that the average quality of the student body is above that of former years. I think that both of these suppositions are true and that the higher class standing is due to a combination of both of these factors.

There have been but few changes in the Faculty during the year with the result that there has probably been better continuity in the instruction than for many previous years. Professor Jacoby, head of the Department of Poultry Husbandry, resigned at the close of last year and Professor Dakan of the Extension Service was appointed to succeed him. Professor Elwood accepted a position as head of the Department of Landscape Architecture of Iowa State College last September and Professor William R. Sears has been placed in charge of the work in landscape architecture in this College. The outstanding instances of expansion in the College program for the year have been in these two lines of poultry husbandry and landscape architecture. A new instructorship was provided for Poultry Husbandry, and a new assistant professor and a graduate assistant were added for the work in landscape architecture.

STUDENT ENROLLMENT

The total number of different students enrolled in the College for the year was as follows:

Standard Course in Agriculture.....	620
Standard Course in Home Economics.....	350
Winter Courses in Agriculture.....	76
Total for the year.....	1046

The enrollment in the courses in Agriculture for the year showed a decline when compared with that of last year. This is especially marked in case of the Winter Courses. I have made some study of this situation and some investigation by correspondence and personal interviews on the outside. The decline apparently is not due to a lack of interest in farming on the part of the young people but to a feeling of discouragement

because of the depressed condition of agriculture during the past four or five years. The decreased enrollment is not exclusively due to actual lack of money with which to obtain an education, because the farm boys are going to college, but are pursuing lines of work other than agriculture even when their natural inclinations are toward agriculture. The father's discouragement about the future of farming is reflected in the son's decision to prepare for some other occupation. When we have a return to a fair degree of prosperity for agriculture we shall again have a period of increased enrollment in all of our courses in agriculture. It is worthy of note that practically all of the other states report the same conditions as to enrollment that we are experiencing.

THE ALL-AGRICULTURAL COUNCIL

The group consisting of the elected representatives of the student societies of the College and the Dean and Secretary, familiarly known as the "All-Ag Council," has continued to function constructively during the year. This group forms a committee to take general charge of the student activities of general interest to the College as a whole, and in addition has, I feel, been able to raise the work of the various societies to a higher level of value and efficiency. The Council also serves as a means of conveying student opinion to the Dean and gives him an avenue of direct approach to the student body. I feel that the conception of the Council was one of the happiest thoughts of the last few years. It is planned to make this body of increasing usefulness to the College.

NEW BUILDINGS

The group of five barns for the Department of Animal Husbandry has been completed during this year. The grading and improvement of the site is well on the way to completion. The plans for the office and classroom building are ready to submit to the Board of Trustees. When completed we shall have one of the very finest groups of animal husbandry buildings in the country. With the marked improvement in the herds and flocks of the last few years and this fine new equipment we are facing a future of great promise for our work in animal husbandry.

Several new buildings are badly needed by the College, the details of which are presented in the budget requests for the next biennium.

THE ROTARY FUND

This year has again demonstrated the value of the rotary fund as a stimulus to better work on the part of the departments. While the amounts realized from sales are not very large they are sufficient to give a little flexibility to the budget, and the fact that the money thus realized can again be used by the department encourages greater care and interest in disposing of the produce of the farm and gardens. I hope we shall never have to return to the old method of handling these funds for I am sure the present method is to the best interest of the University and the State.

THE UNIVERSITY FARM

It is a pleasure to report the purchase last July of the 150 acres of land known as the "Watermann Farm," which the University was able to obtain through the generosity of the Legislature and the public spirited stand of Mrs. Watermann, who sold the farm to the University for much less than she could have obtained for it if it had been sold for division into building lots. This farm will eventually prove a valuable addition to the University farm.

It is badly in need of drainage and soil building, but even this year gives indication of its potential possibilities. We are still in need of from 200 to 300 acres more land to enable us to care for the needs of the College in pasture and tillable land to the best advantage.

The past year proved to be a trying one from the point of view of crop production. The season was very late in opening. Some of the corn had to be planted a second time, and the cold, late spring resulted in decreased production. The almost daily rains through June, July, and August made the curing of hay an almost impossible task. The early frosts resulted in much soft corn and injuriously affected some of the other crops. Pasturage alone was maintained at a high level throughout the season. The data regarding the acreage and yields follows:

Crop	Acres	Production
Corn.....	130	5400 bushels
Oats.....	50	2400 bushels
Wheat.....	20	624 bushels
Soy Beans.....	22	346 bushels
Hay.....	114	270 tons
Silage.....	27	400 tons
Straw.....	70	75 tons
Corn Stover.....	130	265 tons
Cow Beets.....	2.5	30 tons

These figures include only those crops raised in the general farm operations and not that produced on the plots in the experimental work of the Departments of Soils or Farm Crops. The soy beans except that retained for seed and part of the wheat were sold and all the remainder of these materials was used as feed or bedding for the University herds and flocks.

The Division of Farm Operations not merely attends to the general production work of the University farm, but is a service organization which endeavors to assist any department of the University which has need for the use of horses for any of its work. It has so far seemed best that the working teams of the farm should be placed under the control of this division, and that they should be assigned to the departments as needed. In carrying out this policy one team has been assigned for full time to the Department of Soils; a man and team is used full time by the Department of Farm Crops; one horse almost full time to the Department of Dairying, and a team and driver is used full time by the Department of Horticulture. In addition the Division of Farm Operations has been privileged to supply the following horse and man labor to the various departments of the University during the year:

Department	Hours man labor	Hours horse labor
Agricultural Engineering.....	102	100
Agricultural Extension.....	19	38
Botany	91	238
Roads and Grounds.....	191	382
Dairying	5	10
Athletic Department.....	5	10
Farm Crops.....	95	190
Horticulture	160	285
Poultry	14	28
Soils	23	30
Veterinary Clinic.....	63	136
Animal Husbandry.....	694	1908
Totals.....	1462	3255

This amounts (in nine-hour days) to 162 days of man labor and 361 days of horse labor furnished to the departments over and above the permanent assignments noted above. It does not include the three horses constantly used by the Division of Roads and Grounds and which are handled by their own drivers but housed and fed by the Division of Farm Operations. We are glad to render this service and record it merely to account for some of the activities of the Division.

The farm is gradually rounding into shape. The irregular and spasmodic accretions of land for the last few years have made it difficult to lay out the fields with any degree of permanency. Additions of land had to be made where and when they were available, and the uncertainty occasioned thereby has necessitated several shifts of fields and rotations. If a few small parcels of land could be acquired to round out the estate the fields could be laid out in a rather permanent manner. Unless funds are available in larger sums than in the past the matter of tile drainage and fencing will have to be spread out over a number of years. On the whole we have made very gratifying progress in the last few years.

RESEARCH

A survey of the reports of the departments will show that a commendable amount of research work is being done by the departments. There is a feeling on the part of some of the staff that the atmosphere at this University is not stimulating to research, but in spite of that fact there are some very excellent research projects under way in several of the departments. I feel I must reiterate the statement made in the previous reports that it is hopeless for us to try to keep in the vanguard of the Agricultural Colleges unless we are provided with better facilities and opportunities for research. We have had several good men taken from us solely because of the research opportunities offered elsewhere, and others have refused invitations to join our Faculty because they were afraid that the means for doing research work would be lacking at this institution. This question becomes a more vital one every year.

EXTENSION SERVICE

A full report of the activities of the Extension Service will be presented in a separate report in accordance with the Federal and State laws. The year has been an unusually successful one in practically all phases of the extension work, and the work is being constantly raised to a higher level and being made more efficient. At this point it is desired to speak only of those activities which were staged on the local Campus.

Farmers' Week with its attendance of 4901 was one of the most successful occasions in the history of this undertaking. The outstanding feature of this year's program was the conference on Ohio's rural program. A full report of the conference is now in press. I desire to here record my appreciation of the co-operation of the student body in making the Farmers' Week an occasion of pleasure and profit to those in attendance. The very fine spirit shown by the students was a source of gratification to the Faculty.

The exhibit at the State Fair was a credit to the University. The plan of having each department feature some one special phase of its work was continued to the advantage of the display.

During the third week in November the College entertained the 800 boys

and girls who were county winners in the Boys' and Girls' Club projects. There are many who consider this work one of the most important phases of the extension program.

For three weeks in June and July, 1923, the College in co-operation with the Ohio Council of Churches conducted a "School for Rural Pastors," with an attendance of 56. The appreciation expressed by those in attendance leads us to believe that such a course can be made of considerable value to the State.

ADMINISTRATION

The Dean's office is undertaking to make studies of a number of matters connected with the subjects of curriculum building, course of study, student standing, methods of helping students, and so on. This office is co-operating with the Department of Psychology in an effort to ascertain the exact value of the intelligence tests in connection with administration as affecting the student. A study is also being made of the actual effect of the new point system upon the student and his future. The office aims to help the student in every possible way consistent with high classroom standards. An effort is being made to perform those functions elsewhere sometimes assigned to a Dean of Men, because of the feeling that the real function of the College is to serve the students in the best possible way.

This office would like to undertake several additional studies if the money were available to secure the required assistance. A large measure of the credit for what has already been accomplished is due to the untiring efforts and spirit of service manifested by the Secretary of the College.

PERSONAL ACTIVITIES OF THE DEAN

The increasing amount of work connected with the daily routine of administration made it necessary to curtail the number of speaking engagements accepted during this year. An invitation was accepted to attend the extension conference at the University of Missouri in December, where he was asked to deliver the opening "keynote" address and to sit through a few days of the session in an advisory capacity. In January a series of addresses were given in connection with the Farmers' Week program at the University of Nebraska, and one address at a similar meeting at Purdue University, and in June he returned to Purdue for two addresses before the conference of Teachers of Vocational Agriculture.

A number of addresses were given at business men's clubs, such as Rotary and Kiwanis, in five different states. In these addresses an attempt was made to place before the city groups the real situation as to the place of agriculture in the nation. Four commencement addresses were given at rural high schools in the state.

A considerable amount of time has been devoted to committee work for the Association of Land Grant Colleges. These activities in addition to the usual duties as Dean, the work in connection with the extension program, and as manager of the farm, have been sufficient to keep one man pretty well occupied.

The detailed activities of the College of Agriculture will be found to be rather adequately presented in the reports of the various departments.

Respectfully submitted,

ALFRED VIVIAN, Dean.

ANNUAL REPORT OF THE COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report from the College of Arts, Philosophy, and Science for the year ending June 30, 1924.

THE FACULTY

During the year there have been the usual number of changes among assistants and instructors, especially in the large departments. There has been no loss in the staff of any one of professorial rank.

At the beginning of the Autumn Quarter Professor George H. Sabine entered upon his duties as professor in the Department of Philosophy, coming from a similar position in the University of Missouri. His ripe scholarship and wide experience have greatly enriched the department, and he has at once taken a position of influence in the Faculty.

At the beginning of the Winter Quarter Assistant Professor Ernest Feise began his duties in the Department of German. He brings mature scholarship and experience from the University of Wisconsin and from residence in a German Colony in Mexico.

It has been possible to add a limited number of instructors especially in English, and to some degree this has reduced the size of the overcrowded sections in the elementary courses.

During the Summer Quarter the staff was strengthened by the temporary addition of Professor George B. Woods on leave of absence from Carleton College who took charge of some courses in English, and of Assistant Professor C. E. Berdahl of the University of Illinois who supplemented the staff in Political Science.

Professor R. E. Rockwood, Chairman of the Department of Romance Languages, was absent for the year, engaged in study at Harvard University, and in his absence Professor George R. Havens acted as Chairman with eminent satisfaction to the department. By special arrangement Professor H. C. Hockett served during the Spring Quarter on the staff of the Department of History at the University of Michigan.

THE ADMINISTRATION

The work of the Dean's office has been as satisfactory as could be expected, considering the physical condition under which we have worked. With the new quarters made available by the removal of the President's offices to the new Administration Building it will be possible to work with much greater comfort and efficiency.

In anticipation of the removal of the Registrar's office to the new building, copies of the records of all students enrolled in the College have been made so that it may be possible to consult with a student at any time regarding his standing, and approve his election card without delay. A system of memoranda of all interviews with students and their parents has been instituted so that a complete account may be had at any time of the relation of a given student to the Dean's office. This record is proving of great value in the daily interviews with students.

THE ENROLLMENT

The enrollment in the College for each of the four quarters together with the voluntary withdrawal after enrollment was as follows:

Quarter	Summer	Autumn	Winter	Spring
Arts	482	2283	1953	1758
Arts-Education	34	128	131	127
Total.....	516	2411	2084	1885
Withdrawal—men	14	43	52	44
Withdrawal—women	3	32	24	15
Withdrawal Total.....	17	75	76	59

A comparison with the corresponding table of last year will show that the attendance in each quarter has been about 600 less than last year. This difference is explained by the fact that for the first time the College of Commerce and Journalism is on a four-year basis and its freshmen and sophomore students formerly registered in the College of Arts have this year been registered in the College of Commerce and Journalism. The decline in attendance during the year is slightly greater than last year, owing to transfers to other colleges as the year progressed. The number dropping out altogether has been notably less than last year, even when due allowance is made for its reduced enrollment. The enrollment in the Summer Quarter was distinctly larger than last summer.

HIGH SCHOLARSHIP

ANNUAL HONOR LIST

At the close of the year 108 students in the College were found to be entitled to a place upon the annual honor list, as compared with 85 last year. Since the attendance last year was about 600 larger, almost wholly in the freshman and sophomore years, it is evident that a far larger percentage of students secured honor standing, and that such standing is attained more frequently by upperclassmen. To attain honor standing a student must have a grade of "A" in at least half of his work and not less than "C" in any of it.

COMMENCEMENT HONORS

The number of students who received the degree of Bachelor of Arts with distinction or high distinction during the year was as follows:

Standing	Summer	Autumn	Winter	Spring	Total
Standing	3	0	4	20	27
High Distinction.....	2	0	1	15	18
Total.....	5	0	5	35	45

The total for last year was 26, so that the number for the present year was an increase of nearly 50 per cent.

DEGREES

The number graduating from the College during the year was 274, distributed as follows:

Degree	Summer	Autumn	Winter	Spring	Total
B.A.	33	12	21	188	254
B.Sc.	2	1	0	17	20
Total.....	35	13	21	205	274

SCHOLARSHIP DEFICIENCY

There has been about the usual number of students placed upon probation or dismissed for continued poor scholarship. The following table comprises the data on this subject:

Quarter	Summer	Autumn	Winter	Spring	Total
Probation—men	20	136	63	66	285
Probation—women	3	26	22	17	68
	—	—	—	—	—
Total	23	162	85	83	353
Dismissed—men	3	21	32	24	80
Dismissed—women	1	2	3	3	9
	—	—	—	—	—
Total	4	23	35	27	89

A large number of men going on probation or being dismissed for poor scholarship compared with women is partly due to the larger number enrolled, but much more largely to the fact that so many men attempt to work their way through college and so undertake more than can be accomplished.

ACTIVITIES OF THE STAFF

Apart from the work of instruction, a university expects a good deal from the staff in the way of publications, lectures, and contributions to public activities.

It is not possible to make an adequate presentation of the work of the College of Arts in this regard, for many of the departments constituting the college are not under the direct supervision of the Dean of the College and the work of these departments will be commented upon in other reports. In nearly every department there has been in evidence a growing response to these ideals of a professor's work, and a long list of publications and addresses could be compiled, many of them of outstanding importance. These may be found in the list of Publications of the Staff as frequently revised by the University. The Four-quarter Plan of work, with its provision for securing two consecutive quarters of vacation is no doubt of marked assistance to any professor engaged in important literary production, and many of our staff have been taking advantage of this provision.

THE CURRICULUM

As the outcome of much study and deliberation, the College has adopted some changes in its curriculum. It was felt that the purpose of the Arts Course as affording a liberal foundation for future specialization was sometimes impaired by a tendency to overspecialization within the college through a very elastic elective privilege, and that a student too often left untouched a great province of human thought and interest with which every well-educated person should have some acquaintance.

Accordingly the courses offered in the College have been re-grouped to some extent and the student is now required to take some representative course in one more group than formerly, diversifying his education to this extent. His extreme specialization in any one group of studies has also reduced to a slight extent, and a few courses formerly open to freshmen have been advanced to the second year. None of these restrictions will affect the course planned by the great majority of students.

It has long been felt, both in this College, as well as in many others throughout the country, that something should be done for the more advanced

student to balance the inevitable omissions of his course. Many students interested chiefly in letters or social studies leave college with almost no knowledge of the fundamental conceptions and methods of modern science; and many students interested chiefly in science graduate with a sad deficiency in their acquaintance with the great masterpieces of the world's literature or knowledge of the great political and social movements of the world.

To partially remedy this defect, the new curriculum as planned contemplates three general courses, each moderate in extent and addressed to the junior and senior. These will endeavor to present, necessarily in broad outline yet with cogency and interest, (1) The fundamental concepts and methods of modern science; (2) the development of civilization in its social relations; (3) the great literary masterpieces of the world. Each student will take two of these courses, chosen so as to most effectually supplement his elected course.

At the same time the College desires that each student will select one or more fields of study and do as effective work therein as possible. To increase the effectiveness of this specialization, the student as he enters upon his junior year will be required to advise with the departments of his choice and so have every possible assistance in planning his work.

None of the changes here proposed are in any way radical and all of them are in line with the prevailing tendencies in Arts College courses. It is confidently believed that our curriculum will be materially strengthened as these plans are put into effect.

COMBINATION COURSES

It is a pleasure to call attention to the increasing tendency on the part of our students to take advantage of the several combination courses offered by the College. These courses are closely patterned after similar courses offered by nearly all universities in which a College of Liberal Arts is associated with a group of professional colleges. These courses are arranged in such a way that the student may secure the degree of Bachelor of Arts together with a professional degree in one year less than the time devoted to the two degrees taken separately.

This arrangement has been widely adopted as a stimulus to the student to make a more ample preparation for his professional course than is demanded by the minimum of requirements for admission, and also in recognition of the fact that increased professional requirement tends to prolong unduly the period of education preliminary to entrance upon professional practice.

That our students respond to the inducements presented by the courses speaks well for their desire for a broad education. It should be added that a great many take the full four years as a preliminary to their professional work.

THE LIBRARY

In my report I recorded the sincere satisfaction of the College in the assurance that the biennial appropriation for the Library had been increased materially. During the year the College has profited greatly by its increased freedom in securing new books and in adding important sets of valuable journals. The library is of supreme importance to this college and every addition to its resources has a very immediate and direct effect upon the quality of our work.

While this added support has been very gratifying it must be said that

the appropriation is still far below our needs. As I said last year, "We are undertaking a very great variety of work in the University and in each department of instruction a costly library is a prime necessity."

With the last year three valuable endowment funds have been provided that are of the greatest importance to the college. These are the Frank E. Pomerene Fund for the purchase of books in American history and American government; the Orton Fund for the purchase of rare sets in the field of geology; and the Sharp Endowment for the Chemical Library. It is to be hoped that these recent endowments may be followed by many others and that all proper efforts may be made to call to the attention of generously-minded persons the splendid returns secured in perpetuity from investments of this kind.

It is a matter of congratulation that provision has now been made for all of the class work hitherto conducted in the Library Building so that all of the space is now available for legitimate Library purposes.

THE ORTON LIBRARY

As a memorial to his illustrious father, Edward Orton, Jr., has fitted up a large room on the third floor of Orton Hall as a geological library and reading room. In this have been assembled a large part of the University Library bearing on geology, and this collection has been largely supplemented by the generosity of the donor of the room. It constitutes one of the most complete geological libraries to be found in any American university.

In the spring, General Orton noted that this room was already overcrowded. Accordingly he sought and obtained permission from the Board of Trustees to move the Library into the large room on the first floor which so long housed the University Library. This room is being entirely refitted at the personal expense of Edward Orton, Jr., and will afford ample space for the needs of the library for an indefinite period. When the library is installed in these handsome rooms it will have the finest quarters of any Department of Geology in the country. At a very early date Orton Hall will be entirely devoted to the work in geology and both staff and students will have every reason for enthusiastic work.

HOUSING CONDITIONS

In the report of last year I drew attention to the difficult conditions under which a number of our departments are working—a fact emphasized in nearly all recent reports to the Board of Trustees. At that time I commented upon a report of a committee of Faculty making several urgent specific requests. The first of these was that University Hall should be set apart for the departments of History, Political Science, Philosophy, Mathematics, and Psychology. With the approaching completion of the Administration Building, the plan proposed has been favorably acted upon, and we shall enter upon the new year much better provided for the needs of these departments.

The second recommendation had to do with adequate relief for the departments of English and the several foreign languages. The work in Greek, Latin, and Romance Languages has been provided for temporarily in Hayes Hall and by this adjustment these departments will be much aided in their instruction. The Department of English remains as probably the most needy department on the campus. It is earnestly hoped that an adequate building may be provided for this important department during the next biennium.

PUBLIC LECTURES

It is a pleasure to emphasize the statement in my report of last year regarding the value of public lectures. The current year has brought a considerable number of distinguished visitors to lecture to us upon their special interests. In a large measure these lectures have been made possible by the funds of the Graduate School, but in some instances through the activity of departments or student organizations. These lectures are well attended and make a large return upon the small investment required. It seems to me that college days should afford the student at least a vivid impression of the great men of the passing generation, and I venture to hope that an increasing number of these distinguished visitors may be brought to the University each year.

CONCLUSION

In conclusion I may say that the year has been a successful one for the college. It has many problems as yet unsolved, and doubtless the new year will present new ones. It enters upon the new year with every promise of a comfortable and pleasant session.

Very respectfully submitted,

W. E. HENDERSON, *Dean.*

ANNUAL REPORT OF THE DEAN OF THE COLLEGE OF COMMERCE AND JOURNALISM

PRESIDENT W. O. THOMPSON, *The Ohio State University:*

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report from the College of Commerce and Journalism for the year ending June 30, 1924.

The registration in the College for the year is as follows:

Summer Quarter	120	The number of graduates in	
Autumn Quarter.....	1288	1923-1924 were as follows:	
Winter Quarter.....	1363	Men	138
Spring Quarter.....	1284	Women	21

The registration in each of the individual courses of each department of the College is as follows:

	Summer Quarter	Autumn Quarter	Winter Quarter	Spring Quarter	Total
Accounting	92	488	521	444	1545
Business Organization.....	190	1079	1595	1063	3927
Economics	168	1085	1083	833	3169
Economic and Social Geography	81	495	653	656	1885
Journalism	42	215	224	182	673
Sociology	209	738	706	611	2264
Total.....					13,463

A FOUR YEARS' COLLEGE

In 1923-1924 a four years' course was offered for the first time in Commerce and Journalism. The registration greatly exceeded our expectations. We believe that much has been gained in interesting students in the purposes and plans of the College from the beginning while the work of the College is now more definitely co-ordinated with that of the high school than heretofore.

There is appended to this report reports from the departments of the College and reports from the Committee on Extension Service and from the Bureau of Business Research. These reports will give the important facts with reference to the development of the College within the last year.

The Bureau of Social Research, although authorized six years ago, has never been organized on account of the failure to appropriate funds for this purpose. The arguments in favor of such a Bureau are just as valid now as when the annual report of last year and former reports were written. A great opportunity for service awaits the organization of this Bureau. A Bureau of Social Research will also greatly increase the effectiveness of the Department of Sociology.

A year ago the Ohio Council of Retail Merchants and the Ohio Manufacturers' Association invited Professor Ruggles to investigate the work of the Colleges of Commerce of the country and the relation of the work of these colleges to the business world—the study to be made at the expense of these associations. To make the proposed investigation the Board of Trustees granted permission to Professor Ruggles to be absent on leave during the Autumn and Winter Quarters of 1923-1924. Professor Ruggles visited all

the leading Colleges of Commerce in the country and interviewed the leading business men in communities where such colleges are located and elsewhere.

Professor Ruggles's investigation leads us to recommend in our biennium budget for the College of Commerce and Journalism not only a greatly increased budget for the Bureau of Business Research but also liberal financing of an Extension Department for the College of Commerce and Journalism.

The budget of the Bureau of Research each year for the last two years has been somewhat less than \$10,000. This, as the report of the Bureau will show, is altogether too small. The Bureau of Research should be the scientific laboratories of the College. In spite of what the individual may do here and there in business and social research, the research problems in these fields are of such far-reaching character that the work can be done best when many scientists co-operate in a general research program. It is well known that several departments of the United States Government, the great Foundations, and some of the industries have organized investigative programs of great significance. The universities can carry on these investigations along business and social lines better than any of the above organizations if they are adequately organized and financed to do these things. Moreover, the University shirks its responsibilities when it fails to organize adequately for scientific research.

It is sometimes assumed that the only purpose of an Extension Course of a University is to teach classes of people who cannot go to a University to receive an education. This is only an incidental purpose in recommending an Extension Department in the College of Commerce and Journalism. It is hoped that such a department will greatly facilitate the work of the Bureau of Research, give force and effectiveness to campus teaching, bring about a more thorough co-operation of the business interests of the State and the College of Commerce, and bring about greater effectiveness and usefulness of the College of Commerce and Journalism.

It will serve the purposes of this report best by reproducing portions of Professor Ruggles's analysis of the scope and functions of a Bureau of Business Research and an Extension Department. The following is a portion of Professor Ruggles's report:

BUSINESS RESEARCH

Some of the functions of a bureau of business research may be briefly suggested.

1. It would make investigations in the field of distribution similar to investigations and analyses which have been carried on for a generation or more in the field of production. It was logical to place emphases on research in the technical fields of production when marketing was confined to very limited areas. Now, however, the situation has changed, and while it is not contended that less research should be done in the technical phases of production, the time has arrived when there must be research in the field of distribution. In other words, even manufacturers have reached the stage where they must give attention to their problems of accounting, management, and marketing, and in the field of merchandising there is urgent need for thoroughgoing research to eliminate much economic waste.

2. It is now possible for a university bureau of business research to carry on investigations which would have been impossible a generation ago. This is because individual business concerns have been collecting information or are in a position to furnish information of a comprehensive character about their own business which can be made available to a university bureau of research. This information is of vital interest in many ways. Through it, for example, overhead costs can be studied, and much economic waste in distribution reduced or eliminated. In other words, a university bureau of business research can serve as a clearing house through which industry and business can secure a scientific analysis of their problems.

3. The field of business is constantly undergoing changes, and it is therefore necessary for those who are to teach in colleges of commerce and business administration to keep in touch with business through actual investigations or work within these fields. Just as a College of Agriculture needs a farm for a scientific study of the problems in that field so does a College of Commerce need a bureau of business research to enable it to make a scientific study of the problems of industry and business. Such studies are imperative if the campus courses are to be brought up to a proper standard, and if courses which are worth while are to be offered in extension. Moreover, it will not be possible to hold certain types of men on College of Commerce Faculties unless provision is made for research. Many men have left colleges of commerce in recent years because of the artificial conditions under which they have been expected to work out practical courses. In other words, the lack of facilities for research by colleges of business has in a large part been responsible for the fact that many men have left universities to enter the business world.

Some of the concrete fields in which such a bureau should make investigations are as follows:

1. Industrial management, including personal problems; labor turnover; attendance in industries and measures of efficiency for non-producing or non-selling forces in industry and in merchandising.
2. Production organization problems, including possible simplification in manufacturing or merchandising processes; material organization problems and accounting systems for various industries, and for various phases of the work of the industries.
3. Marketing and merchandising problems, including Ohio's production along various lines and the marketing problems involved in disposing of what is not consumed within the State; advertising problems, and distribution costs in various retail lines.
4. The results of research should be used in the campus courses and also in extension courses. If an investigation has been made along any line of industry or business, the results should be given in a short course in extension to business men who can profit by such a course and who would be competent to offer criticism of such investigations which would be very valuable.
5. Through the Bureau of Business Research graduate students in business and in industry could make studies that would be of value to them and to business men. Under such a plan their theses would be the result of actual investigations, in the field, of certain phases of business. In a number of universities, including especially Harvard, the University of Pennsylvania, and the University of Chicago, graduate students are making analyses of the problems in industry and business in the fulfillment of the requirements for their degrees. In discussing this phase of work with some of the industrial concerns in Ohio, they have indicated that they would be very glad to co-operate with Ohio State in furnishing opportunities to students to work out theses in analyzing actual problems of industry. There are many industrial problems in this state which could be intelligently studied by graduate students under the joint guidance of a field worker from the College and some one connected with the industry.
6. Patient research of a broad and fundamental character must be made by a university in order to make possible research along specific lines of industry or business. An individual industry or business is dependent upon much information which only a University Bureau can furnish. Moreover, such information is necessary if inefficiency and waste in distribution are to be lessened or eliminated.

EXTENSION WORK

Extension work in commerce and industry should aim among other things to accomplish the following:

1. Through the extension division the Faculty would have the opportunity in co-operation with the Bureau of Business Research to collect concrete business problems which could be used both in extension courses and in the work on the campus. Men must not be left at classroom work until they grow stale. They should go out often enough to keep the course which they give up-to-date and worth while. Harvard University expects to spend \$300,000 within the next three years in sending out, from its Graduate School of Business Administration, competent persons who will secure material from the field to be used in their classroom instruction. Concerning this part of the work of Harvard, President Lowell made the following comment in his last report:

"The School of Business Administration has been developing steadily the method of teaching by cases, that is, by actual problems collected from business corporations and cast into a form adapted for study and for discussion in the classroom. The collecting is done by

the Bureau of Business Research in the School with the aid of the instructors in the various courses. It entails a great deal of labor and, together with the printing, a large expense; but the results in the effectiveness of teaching have amply justified the cost. The School has produced a method that has won the confidence of business men, and the applicants for admission are now as many as can well be cared for under existing conditions."

2. Through an extension division, field work could be required of students as a part of their regular work. Such a plan would call for a number of persons as co-ordinators who would work through the extension division to make the field work of students effective and to make it possible for the college to profit by the suggestions and the advice of the industries and businesses in which students are engaged.

3. Extension courses should be given in various centers of the State. These courses would be along five different lines:

(1) Courses given one night each week in various cities to students from Ohio State who were out in the State fulfilling their field work requirements. This plan has been carried out successfully by the Massachusetts Institute of Technology and other institutions. In the larger cities there would be enough Ohio State students to make several classes. Arrangements could be made to locate class work in some of the smaller cities at central points that could be easily reached by students within a given radius in other small places.

(2) Courses for persons, not students enrolled in the University, but who desire to improve themselves and who are engaged in working during the day in stores, in industries, in banks, insurance companies, real estate organizations, and many other lines.

(3) Courses giving the results of investigations made by the Bureau of Business Research. These would in the main be given to mature business men and to business executives.

(4) Short courses open to business men, as, for example, courses consisting of probably six or eight lectures and given at such time of the year as would make it possible for business men to profit most by them. These short courses, business institutes, or conferences, might be along such lines as the following:

1. Industrial problems.
2. Marketing problems.
3. Retail credits and collections.
4. Mercantile credits and collections.
5. Principles of advertising.
6. Retail advertising.
7. Salesmanship.
8. Sales management problems.
9. Investment problems, etc.

In the State of Washington they have carried out very successfully this short course idea. They start some of these courses, for example, in October and conduct them for six or eight weeks. This enables business men to finish such a course before the rush of the holiday season. The University of Wisconsin has been successful with courses held at various centers in the state and attended by persons within a reasonable radius of these centers. Such a plan ought to be more feasible in Ohio than it has been in Wisconsin. The state is more densely populated and has a greater mileage of hard surface roads.

(5) Popular discussion throughout the state before chambers of commerce, business men's associations, men's and women's clubs of various phases of industry, and business in which the public is vitally interested. Economic waste in distribution is due to some extent to the public itself. A disinterested body like a university can inform the public wherein it can contribute to elimination of waste in distribution.

In conclusion it should be repeated that, in view of the complexities of modern industry and business, there is urgent need for a careful study of the economic waste in distribution. Appropriation to a university for work along this line is one of the best possible investments that the people of a state can make.

If, as a result of the work of the investigation by the University, there would be a saving on the gross sales of retailing alone in this state of 1 per cent, saying nothing of the savings that might come in the industries, it would amount to more than 70 times the total appropriation for Ohio State University last year. If the saving amounted to but one-five thousandth of 1 per cent, it would pay not only for the Bureau of Business Research but for the entire cost of the College of Commerce for a year. These figures are based on a computation of gross sales in retail lines which has been made to Harvard University over a series of years and on the theory that there are something over 50,000 retailers in this state.

Such an estimate of possible savings through more attention being given to the economic waste in distribution is of much significance in considering an appropriation to a state sup-

ported institution. Such funds come through taxation of the people. If, therefore, a College of Commerce can make possible the elimination of much economic waste in distribution, competition will in turn give the public the benefit of such savings.

Very respectfully,

J. E. HAGERTY.

ANNUAL REPORT OF THE COLLEGE OF DENTISTRY

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report from the College of Dentistry for the year ending June 30, 1924.

We have just graduated our last class entered upon a four year high school requirement. Naturally, with a year advancement for entrance, this class of June, 1924, being the last coming from a high school, was a very large one. We registered 65 in the Fall Quarter and graduated 57; having graduated seven at the Summer Quarter of 1923, we have 64 as of this school year.

The action, taken by the National Dental Educational Council, of demotion, in our case, did not, seemingly, make much if any difference with the number of incoming freshmen. It is of interest to note that our first freshman class, entering the fall of 1921, upon the requirement of one pre-dental year, numbered 12; those entering the fall of 1922 numbered 24, and last fall's freshman class numbered 51. It is understood that we will ask for another survey, upon the part of the National Dental Educational Council, immediately after we have removed to our new quarters on the campus.

Our arrangement of five years, with one year pre-dental, has therefore functioned as we had hoped. Realizing that the inevitable drop in numbers would be serious, especially as over 50 per cent of the dental colleges did not make such a change, we hoped and expected that the worth of the five year curriculum would be realized by prospective students in dentistry. The progression then, of 12, 24, and 51, manifests the facts of increased educational advantages, and university connection opportunities. Within the next two years practically all dental colleges will be on a five year basis.

The various dental college organizations, such as The American Institute of Dental Teachers, the American Universities Dental College Association, the National Association of Dental Colleges, and the Canadian Dental College Association, all happily united at a joint annual meeting, held early in March of this year in Chicago, into one organization, the American Dental College Association. This action should bring about harmony in the movement towards better educational policies. Much is yet to be done along dental educational lines. Cultural and technical training must be harmonized, without bringing about so great an advance in time, that the very purpose of dental education will be swamped; that is, service to the public. Dentistry, as we all know, has occupied a unique field, in that it has followed, sometimes and in many locations far in arrears of medicine, yet as a professional entity, demanding recognition, on a par, as a closely allied, highly specialized section of medico-surgery. The technical training has been well looked after, so far as printed curriculum is concerned, but the fundamental sciences, and medical sciences have been in many cases a farce. Much improvement, how-

ever, is steadily manifesting itself throughout the dental world. It is of great interest to note that in Dr. William J. Gies's report to our new American Dental College Association, a very plain hint was broadcast that dentistry must, between now and 1930, establish a curriculum that will give to the service of the public, a product with a triple educational bearing, and I could well call such a product, a dento-medico-engineering surgeon. Dr. Gies asked that a committee be appointed to present, as soon in the near future as possible, a curriculum of such bearing. He, himself, is strong for a so-called two and three year curriculum; two years pre-dental, and three years dental. Each college was asked to send in their ideas this past spring and the following was the suggestion of our Faculty:

Total Hours	Present Course			Tentative Suggested Course		Total Hours
	Lab. Hours	Didactic Hours		Didactic Hours	Lab. Hours	
	0	120	English	120	0	
	48	36	Zoology	36	48	
	72	24	Comparative Anatomy	24	72	
	216	96	Inorganic Chemistry	96	216	
	0	120	Math. Foreign Lan. or Soc. Science	0	0	
	0	0	Shop Work	24	108	
	0	0	Principles of Physiology	60	0	
732	336	396		360	444	804
	0	0	Physics	132	96	
	144	72	Organic Chemistry	72	144	
	0	0	Psychology	60	0	
	0	0	Metallurgy	12	72	
	72	0	Technical Drawing	0	72	
	324	48	Gross Anatomy	48	324	
	324	36	Prosthesis	0	0	
	108	24	Dental Anatomy	0	0	
	36	25		0	0	
1212	1008	204		324	708	1032
	216	96	Physiology	72	216	
	0	0	Bio-Chemistry	24	36	
	144	48	Histology	48	144	
	0	0	Dental Anatomy	24	108	
	180	36	Prosthesis	36	144	
	144	48	Crown, Bridge, and Porcelain	36	108	
	144	24	Operative Technic	24	144	
	108	24	Bacteriology	24	108	
	36	12	Metallurgy	0	0	
1260	972	288		288	1008	1296
	144	24	Pathology, General	24	144	
	36	12	Pathology, Dental	12	36	
	0	24	Oral Hygiene	36	0	
	0	36	Dental Medicine	36	0	
	48	0	Orthodontia Technic	0	48	
	108	36	Prosthesis	36	324	
	108	36	Crown, Bridge, and Porcelain	36	144	
	0	36	Operative Dentistry	36	0	
	0	36	Radiology and Exodontia	36	0	
	648	0	Infirmity Practice	0	468	
1332	1092	240		252	1164	1416

Present Course			Tentative Suggested Course		
Total Hours	Lab. Hours	Didactic Hours	Didactic Hours	Lab. Hours	Total Hours
	0	36		0	
	0	36		0	
	0	36		0	
	0	36		0	
	72	36		72	
	0	36		0	
	1116	0		1224	
1404	1188	216	216	1296	1512
5940					6060

Credit Hours		First Year		Principles of	
5. English		5. English		5. Physiology	
5. Zoology		5. Shop Work		5. Comp. Anatomy	
5. Chemistry		5. Chemistry		5. Chemistry	
15		15		15	
		Second Year			
5. Physics		5. Physics		5. Physics	
5. Organic Chemistry		5. Organic Chemistry		5. Psychology	
4. Gross Anatomy		4. Gross Anatomy		5. Gross Anatomy	
2. Technical Drawing		2. Metallurgy		1. Metallurgy	
16		16		16	
		Third Year			
6. Physiology		6. Physiology		3. Bio-Chemistry	
3. Histology		3. Histology		4. Histology	
2. Prosthesis		2. Prosthesis		3. Prosthesis	
2. Crown, Br., and Porcelain		2. Crown, Br., and Porcelain		2. Cr., Br., and Porcelain	
5. Dental Anatomy		5. Operative Technic		1. Operative Technic	
18		18		5. Bacteriology	
		Fourth Year			
3. Pathology, Gen.		3. Pathology, Gen.		2. Pathology, Dental	
3. Oral Hygiene		1. Dental Medicine		2. Orthodontia Technic	
1. Dental Medicine		4. Prosthesis		1. Dental Medicine	
4. Prosthesis		3. Crown and Bridge		4. Prosthesis	
2. Crown and Bridge		1. Operative Dentistry		2. Crown and Bridge	
1. Operative Dentistry		1. Radio-Exodontia		1. Operative Dentistry	
1. Radio-Exodontia		5. Infirmary Practice		1. Radio-Exodontia	
3. Infirmary Practice				5. Infirmary Practice	
18		18		18	
		Fifth Year			
1. Dental Medicine		1. Dental Medicine		1. Dental Medicine	
1. Orthodontia		1. Orthodontia		1. Orthodontia	
1. Ethics, Eco., Juris, His.		1. Ethics, Jur., Eco., History		1. Eth., Jur., Eco., Hist.	
1. Operative Dentistry		1. Operative Dentistry		1. Operative Dentistry	
2. Oral Surgery		2. Oral Surgery		2. Oral Surgery	
1. Anesthesia		1. Anesthesia		1. Anesthesia	
11. Infirmary Practice		11. Infirmary Practice		11. Infirmary Practice	
18		18		18	

I presume at the next winter meeting of the College Association, the curriculum committee will have the large attention of the association.

Drs. Bottenhorn, Cottrell, Hebble, and Semans attended the Chicago meeting in March; and the three former put in a profitable time visiting the new

dental building of Marquette University of Milwaukee. Our Faculty in general gave papers and clinics at different meetings both at home and away, at different times during the year. Dr. Strosnider, last December, was elected vice-president of the Ohio State Dental Society. During this session there have been no withdrawals from our faculty and there were two added, Drs. Postle and Highman. Both as demonstrators, during the past year, have shown instructional ability and have been retained for next year in such capacity. Dr. Cottrell entered upon full time as Professor of Prosthetic Dentistry and Secretary of the Faculty. Our Faculty, during the past year, has given much thought and attention to what should be the real service of a dental faculty, especially in time of service, realizing that adjustment to the new demands upon the profession is imperative. Our budget report, already submitted, will show their results.

Our clinics have taken care of approximately 4000 patients. This is almost an increase of 1000 over any other year. The receipts totaled about \$21,250.00.

The work in the dental infirmary for the session is as follows:

Gold fillings	1860
Gold inlays	1051
Amalgam fillings.....	1957
Cement fillings	243
Enamel fillings	442
Crowns (all kinds)	241
Bridges	270
Plates (all kinds).....	414
Prophylaxis	2432
Pyorrhea treated	861
X-rays	1840
Orthodontia	12
Oral Surgery (including exodontia patients).....	1621

During this session, by assignment of our seniors, we have conducted clinics for indigent children at the Children's Hospital, South Side Settlement, Schoenthal Home, West Side Settlement, Godman Guild, and the County Children's Home. In all about 1500 children have been cared for at these places. Arrangements have been made with Dr. Reynolds, Superintendent of the Children's Hospital, whereby our seniors can be admitted as observers at such operations as appertain to operations of the face and jaws.

Major Lester C. Ogg of the Dental Corps, U. S. A., has completed his third year in charge of the Dental Corp, R. O. T. C. He enrolled 91 during the past year in this course. Thirty-four attended the training camp at Carlisle, Pennsylvania, the summer of 1923, and eight this summer. Thirty-two of our June graduates were commissioned as First Lieutenants, Dental Corps, O. R. C.

Fifty-eight graduates in dentistry, Ohio State University, took license examinations in June and 58 successfully passed.

We are looking forward with much pleasure to our move to the campus; Goodale Park lake is a beautiful view to dwell upon, but 710 North Park Street may well pass away, memories of pleasant work and happy association retained.

Respectfully submitted,

HARRY M. SEMANS, *Dean.*

ANNUAL REPORT OF THE COLLEGE OF EDUCATION

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report from the College of Education for the year ending June 30, 1924:

STATISTICS

I. Students registered in the College of Education, 1920-1921 to 1923-1924.

Academic years not including summers		Summers	
1920-1921.....	612	1920.....	279
1921-1922.....	745	1921.....	284
1922-1923.....	1004	1922.....	471
1923-1924.....	1170	1923.....	827

II. Comparison, by quarters, of registrations in the College of Education since beginning of quarter system.

Quarter	Education No. Students		Arts-Education No. Students	
	1922-1923	1923-1924	1922-1923	1923-1924
Summer	471	827	28	34
Autumn	713	981	104	128
Winter	718	1006	101	131
Spring	740	974	115	127

III. Students graduated, 1920-1921 to 1923-1924.

Year	College of Education	University
1920-1921.....	103	1104
1921-1922.....	119	1182
1922-1923.....	160	1510
1923-1924.....	193	1456

The increase in the number and quality of graduate students in the past year is especially gratifying. The University grade of work as contrasted with collegiate grade will become increasingly evident in the immediate future. Most apparent is the increase in the intellectual quality of our student body, both in the graduate and undergraduate work. Lamentations, now so prevalent in current expressions, with respect to the influx of large numbers of alleged disinterested students to higher seats of learning, are matters of opinion which, for the most part, has its origin in a narrow interpretation of what constitutes culture. Moreover, such opinion, as a rule, lies in the matrix of a restricted educational and social philosophy. Absolutely the number of such students is probably greater; relatively the number without doubt remains practically unmodified.

A detailed history of education finds each age contributing its quota of concerns with respect to the decadence of intellectual interests. This is inevitable since each age is a new age and brings with it new interests, new conditions, new needs. No age has been without those who apperceive and interpret a widened, expanded horizon as a dispersion of intellectual interests rather than a multiplication of them. Each new interest, if representing some fundamental area of human thought, is important, and is not likely to be long denied. The currents of life are, as a consequence of the intricacies of modern life, not only deepening but widening. In these circumstances the term "competency" itself may undergo desirable modifications so that new criteria may be found necessary to measure its meaning. Few are consciously

aware of the growing complexity of life and fewer still realize to what extent human ingenuity is at present engaged in adapting human conduct and behavior to the new environment. So insidious and rapid has been the transformation of the conditions of existence that no adequate formulation of the underlying causes of social turmoil and intellectual unrest has appeared. Nor is such formulation likely to appear during the period of ferment.

History clearly reveals that whenever man's ingenuity complicates the conditions of life an attempt is made to restore social balance by means of education. Hence, we find not only newer forms of education, new and novel emphasis, but also a re-interpretation of humanistic studies in terms of values more consonant with an intellectual and physical environment almost remade under the impact of scientific thought.

The modern student is rich in intellectual interest, full of subtlety, generosity, and imagination; he is adventurous and steadfast in purpose. This is evident if we but neglect the lower 10 percentiles and an additional group of ne'er-do-weels.

Our age is an age of education, and no one can foretell to what limits the American Republic is determined to test education as means to its vaguely conceived destiny. *Der Drang Nach Erziehung* is one of the main currents of American life. This much must be evident even to him who is passing through life as a mere wayfarer. Our national credo is *Education contra Mundum*, as the agency of our social going, and perhaps rescue. In some vague, more or less nebulous fashion, the nation feels that it is now a "race between education and catastrophe." Whether illusive or real, the great experiment in universal education is on. The nub of the quest for salvation, for balance, lies essentially in higher education where youth either does or does not attain some sore of *Weltanschauung*. Politically, this means that higher education must contribute a social philosophy which is in harmony with the ideal of government by the *homo ubiquitous* representative of the human family. Higher institutions must not fail the national striving, but must assist determinedly in testing the experiment.

There is a growing awareness in the College of Education of the transformation of the modern environment, of national and world drift. Our obligations in these circumstances are clear, and the necessity of formulating a central tendency of approach is apparent. In such a tendency, or educational philosophy, traditionalism will find appropriate evaluation; physical mortality will be superseded by universal morality and empty orthodoxy will be followed by religion applied to the daily concourse of human relationships.

If the new conditions and the consequent new life, with all its adolescent urges, are not interpreted to our youth by, and through, the genius of instruction, then traditionalism will continue to prevail, and outgrown values will continue to subsist. Then Oswald Spengler's prophecy in *Der Untergang des Abendlandes* stands more than an even chance of fulfillment. He makes a clear-cut distinction between culture and civilization. On this distinction Francke interprets Spengler as follows: "The senile age of culture is civilization; in other words, civilization is that stage of human development when the soul-life of a given culture has become torpid, when unconscious production has been hardened into conscious reflection, when the dynamic has given way to the mechanic, when science takes the place of art, when the chief concern is no longer the creation of ideas, but only the diffusion amongst the largest possible number of people."

The new morality, the new theology, the new education, the continuation of cultural activity probably find their greatest promise in higher institutions of learning, and here only if there is freedom of thought and speech, and if this freedom is tempered by scientific reservation and discretion which find their origin in the utmost regard for truth.

There is great need of a new educational philosophy; there is great need of faculty discussion of educational objectives and their bearings on the common life of mankind; there is great need of universal dissemination of the gospel of service; there is great need of a re-interpretation of what has so long been denominated "the eternal verities of life"; there is great need of assembling the enormous volume of new ideas, new truths, and pointing them toward world-wide human welfare. Whether civilization shall totter over the brink, or enter the dawn of a new humanism, rests essentially upon the genius of the modern schoolmaster.

If there is need of a new educational philosophy; if there are constructive social needs, then the schoolmaster should proceed scientifically in careful educational experimentation. The competitive system in education, and therefore in society, no longer meets the changed conditions of our age. The traditional utilization of humanistic material is inadequate. Science and the humanities must re-interpret their content in terms of a new and changed environment—in brief, a new world.

In the new society and the new education the old emphasis on the acquisitive and competitive tendency will be superseded by an emphasis on the constructive tendency, to the end that social co-operation may take the place of social competition. In this scheme of things the schools will interpret the changes, social and industrial, which have so profoundly modified and so enormously complicated the conditions of life.

The College of Education should contribute to this interpretation through the establishment of a University Elementary School and a combination University Senior and Junior High School. These schools are laboratory facilities for which there are no real substitutes. The best privately endowed colleges of education have had these necessary facilities for over a quarter of a century, and most of our state universities have made some provision to test educational theory by carefully conducted observation and experimentation in such schools.

Respectfully submitted,

GEORGE F. ARPS, *Dean.*

THE APPOINTMENT COMMITTEE

As educational work is organized at the present time it is highly important that a college of education shall have a well-organized appointment Bureau, for the purpose of bringing together school officials who are in need of teachers and those persons whom the college has prepared for teaching service.

During the past year the Bureau has installed a system by which there will be kept a permanent record card of each person registered. A great number of former graduates of Ohio State University have registered with the Appointment Bureau. These applicants of experience include not only graduates of the College of Education, but also those of the College of Arts, the College of Commerce and Journalism, the College of Agriculture, and the College of Engineering.

The records show that more than 600 have registered for positions since July 1, 1923. During the same time our appointments numbered 465. Among this number are included 11 city superintendents, and 56 village or consolidated school superintendents in the location of whom the Bureau has been concerned either directly or indirectly.

The salaries have ranged from \$1600 to \$4500 a year. Our locations in larger cities have been quite satisfactory as the following table will indicate:

City	Appointments
Columbus.....	40
Cleveland.....	18
Toledo.....	14
Alliance.....	10
Coshocton.....	7
Circleville.....	5
Springfield.....	4
Cincinnati.....	4
Zanesville.....	3

Perhaps one of the greatest services which the Appointment Bureau can render is that of pointing out the supply and demand in various fields. For example, at the present time, the supply of teachers of English, History, Spanish, and Art is greater than the demand. On the other hand, the demand for those trained in coaching and manual training is greater than the supply. When the records show this situation over a number of years it will be possible to give rather helpful advice in regard to major and minor fields to those preparing for the teaching profession.

BUREAU OF EDUCATIONAL RESEARCH

GENERAL STATEMENT

The present year has brought an increase of service and production in the Bureau. At the beginning of the year Dr. E. J. Ashbaugh became in fact, as well as in name, assistant director. Thus two men who are thoroughly acquainted with the Bureau's problems are continuously on the ground. This accords with the spirit of the quarter system.

The first research assistantship, filled by Mr. A. O. Heck of Akron, has added greatly to the work of the Bureau, and it is hoped that the number of men in this position may be gradually increased, since it is one of the surest ways to make for scholarship and service.

The definitely operated maintenance budget of \$11,000 made possible a specific planning of work as never before, and experience will make possible even more definite planning in the future. This sum was supplemented by a grant from the Commonwealth Fund of \$4488 to carry on the project of the supply and demand of trained teachers.

Incoming first-class mail of about 15,000 pieces, outgoing letters of approximately the same number, besides more than 18,000 circular letters give some idea of the activity of the Bureau. This was nearly a 20 per cent increase over last year.

TYPES OF SERVICE

Though the major emphasis in the work of the Bureau is research, service is by no means small. School people and boards of education are constantly asking advice and assistance on the selection of sites for new buildings, pub-

licity to carry elections, checking of architects' plans from an educational point of view, problems of organization, administration, supervision of methods, and constructive programs for parent-teacher and civic organizations. Complete surveys have been made in four communities, and similar work will be undertaken in others during the next three months. In addition to these types of service, committee work with the State Teachers' Association and the State Department of Education has demanded considerable time and energy.

On the campus, the Bureau has rendered service not only to the College of Education, but to other colleges as well. The professional and textbook library of the Reference Division have made available material which could not easily be secured in any other way. Service of the entire Bureau in connection with the Educational Conference and the publication of the proceedings has been of an extent quite unsuspected by those not in close touch with the work.

ADDRESSES AND WRITINGS

Dr. Buckingham, Dr. Ashbaugh, and Dr. Stevenson have, together, delivered more than 80 formal lectures and addresses during the year, approximately half of which were given before various organizations outside of the state. The number was almost equally divided among the three men. This service has enlarged the contacts of the Bureau and made co-operative friends which may be called upon to assist in furthering its work.

Dr. Buckingham and Dr. Ashbaugh have published both articles and editorials in the *Journal of Educational Research* and the *Educational Research Bulletin*; Dr. Stevenson has had articles in the *Journal of Educational Research* and the *Educational Research Bulletin*, and has published a monograph on "A Study of the Relation of Class Size to the Efficiency of Teaching." The first of the newly established Ohio State Research Monograph Series,—"A School Building Survey of Marietta, Ohio"—is by Dr. Stevenson, and is now in the hands of the printer. Miss MacLatchy has also contributed valuable material to the *Educational Research Bulletin* in spite of her strenuous duties as Editorial Assistant.

RESEARCH PROJECTS

In this brief report it is not possible to more than merely mention some of the projects which are well under way. A listing, however, with slight indication of the extent to which co-operation has been secured may be worth while.

1. Class Size, by Dr. Stevenson, in which four cities in Ohio and six in other states are co-operating is well under way, but will continue through next year.
2. Departmental teaching, with Mr. A. W. Stewart working under Dr. Buckingham, has had one entire school in Cleveland for its laboratory.
3. Kindergarten Project, with nine Ohio cities, Pittsburgh, and Chicago co-operating, is under the direction of Miss MacLatchy.
4. Types of Teaching, by D. H. Stevenson, has been completed, furnishing the material for his Doctor's Dissertation.
5. A study of Child-accounting Records, is being carried forward by Mr. A. O. Heck with the co-operation of all State Departments and 146 cities, 54 outside of Ohio.

6. Supply and Demand in Respect to Trained Teachers, by Dr. Buckingham, covering the state completely, is well under way.

7. Legitimate School Economics, under Dr. Stevenson, has the most important school people of the state in active co-operation.

8. State-wide Testing Program, by Dr. Stevenson, on geographical information and ability to apply geographical knowledge, includes 150 county and city superintendents and more than 40,000 children.

9. Effective Publicity, under Dr. Stevenson, involved 22 Ohio cities in campaigns for bonds and extra levies last fall, all of which were successful. The project also extended to many cities outside the state.

10. Problem Scale in Arithmetic, by Dr. Buckingham and Mr. Heck, secured the co-operation of 69 schools in five states.

11. Time Schedule for Various Subjects in Elementary Schools, by Dr. Ashbaugh, involves 103 cities, representing nearly every state in the Union.

12. Department of School Attendance, under Dr. Ashbaugh, has secured the co-operation of nearly 100 cities of more than 25,000 population.

13. One-room Rural Teachers, under Dr. Ashbaugh, with 20 counties and more than 1100 teachers.

14. Building Survey of Rural Schools, by Drs. Ashbaugh and Stevenson, in Auglaize County.

15. A Study of State School Administration, by Mr. Schrammel guided by Dr. Buckingham. This is a Doctor's Dissertation.

16. Remedial Instruction in Arithmetic, by Dr. Stevenson, involving three cities outside of Ohio, three Ohio cities including Columbus.

FOURTH EDUCATIONAL CONFERENCE

Dr. Stevenson as secretary of the Conference committee did much of the publicity work and correspondence. The Editorial Division assisted in the publicity and the printing of programs, and has edited the volume of proceedings. The Library Division did little else for several weeks except work on exhibits. All of this work was definite service to the College of Education and the University as a whole. (For report of the Conference see p. .)

REFERENCE DIVISION

The position made vacant by the illness of Miss Margaret Doherty was filled by the appointment of Miss L. Belle Voegelien. Her training and experience has made possible the large amount of service rendered by this division. More than 1000 books have been received gratis either for the textbook exhibit in connection with the Educational Conference or because of the publicity given by reviews in the Journal of Educational Research. About 300 bulletins and pamphlets have been received per month. Large quantities of mimeographed material have also come in, and furnished valuable data on certain research problems. Articles of merit in all periodicals regularly received are indexed by subject and author. Next year, with an indexer on the staff, valuable material in reports, surveys, and bulletins will also be indexed. Reference service has been extended to students and faculty who make the Bureau a regular working place, and by correspondence to persons in a widely

distributed territory. Such books as may be spared are loaned, and bibliographies are made up on subjects desired. The work begun by Miss Doherty in compiling a tentative list of educational subject headings is being finished by Miss Voegelien.

EDITORIAL DIVISION

The addition of Miss Helen Brown as proofreader gave great relief and made possible more extensive work than Miss MacLatchy could have done alone. The entire manuscript of the Third Educational Conference Proceedings and most of the manuscript for the proceedings of the fourth has been edited this year. The Journal of Educational Research, of which Dr. Buckingham is Editor and Dr. Ashbaugh Associate Editor, has had some material editorial assistance from Miss MacLatchy and Miss Brown. Though this is not a Bureau project, the Bureau receives much library material which is of service both to the Bureau and the College of Education, and the College and University receive much free publicity because of the intimate personal connection between the Bureau and the Journal.

The most complete test bibliography ever compiled was started by Miss Doherty and has been completed by Miss MacLatchy. It will soon be published by the United States Bureau of Education.

The Educational Research Bulletin was increased this year from 16 to 24 pages, and has probably made more friends for the Bureau and the College than any other single activity. A large number of letters from representative school men, research workers, and publishers have spoken in most commendatory tones of the value of the Bulletin. It has been quoted extensively by other bulletins and magazines, some of which have asked for blanket permission to reprint with acknowledgment any material which is found in the Bulletin which the editors consider to be of interest to their own readers.

The editing of the Bulletin and the new series of Educational Research Monographs has also been the work of the editorial division.

TEACHING

The Bureau staff has rendered definite assistance to the Departments of School Administration and Principles and Practice in teaching during the present year. During the first term of the summer quarter, Dr. Ashbaugh and Dr. Stevenson each taught a three-hour course; Dr. Buckingham taught two courses during the autumn quarter, and Dr. Ashbaugh, one. Dr. Stevenson and Dr. Ashbaugh each taught one course during the winter quarter. Thus, the staff taught during the year 21 quarter hours, a total of 110 students. In addition to this, all three members had students registered in either major or minor problems, and have thus guided about 20 graduate students during the year.

THE FOURTH ANNUAL OHIO STATE EDUCATIONAL CONFERENCE

The keynote selected for this conference was "standards in Education." The following speakers from outside the state were chosen for the general program: Dr. W. W. Charters, Dr. William A. McAndrew, Dr. T. E. Finegan, Mr. E. C. Hartwell, and Dr. W. S. Gray. Dr. B. R. Buckingham and Dr. T. C. MendeHall were the Ohio speakers chosen for the general meetings.

The Conference Committee appointed chairmen to arrange programs for

the 26 sectional meetings. Two new sections, Special Education and School Librarians, were provided for. All programs were submitted to the secretary of the conference in tentative form for approval.

PUBLICITY

As in previous years many circular letters were sent to the school people of the state. The Educational Research Bulletin carried the announcement for several issues preceding the program number. Special articles written from advanced copies of the papers were supplied to the Associated Press and the United Press by Mr. H. G. Hullfish, who also distributed news to Ohio papers through Mr. J. E. Pollard, University Publicity Director. Announcements of the conference were carried in such national publications as School and Society, American Educational Digest, the Journal of Education, and the Journal of Educational Research.



Distribution of Delegates Attending the Fourth Ohio Educational Conference. (Black dots indicate cities sending less than 10 representatives; open squares, cities having 10 to 24 representatives, and crossed squares, cities having 25 or more. Shaded portions were without representation.)

PROGRAM

The growth of the conference is attested both by the attendance and the number of speakers. The conference of 1922 had 95 speakers, five of whom were from outside the state. The 1924 conference had 127 speakers, 15 of whom were from outside the state. While great effort was put forth to secure the registration of everyone in attendance, it is practically certain that the registration was not complete. The distribution of registrants according to the types of position they held shows that every type of educational service was well represented. For example, there were 701 elementary teachers, 345 high-school teachers, and 204 junior high-school teachers. There were more than 100 from each of high-school principals, elementary-school principals, "4740" superintendents, and college teachers, exclusive of Ohio State University. City superintendents, county superintendents, and supervisors each numbered more than 50.

The total registration this year was 2,859 against 2660 last year. Most of the cities of the state had an increased enrollment this year over last. Three hundred and thirteen cities or villages of the state were represented by one or more delegates. Ten cities had 25 or more representatives registered and 19 others had from 10 to 24. Thirty-seven delegates were registered from other states, among whom were seven from Detroit. Eighty-four of the 88 counties had delegates. The accompanying map shows that the conference is serving the entire state in a pretty satisfactory manner.

The attendance at the sectional meetings, all of which were held April 4, shows that on the average the registrants attended at least two sectional meetings during the day. The Elementary Teachers' section lead with nearly 1000, and the Educational and Intelligence Test section followed closely with approximately 800. Clinical Psychology, Teacher-Training, Special Education, and Parent-Teacher Association followed in order. School Librarian and Physical Education for Women were among the small sections, but no section had such a small attendance that it was not manifestly worth while. A number of the sectional chairmen reported larger attendance than the room would seat and requested larger space accommodation for the coming year. Many of the sectional chairmen feel that the conference would be greatly improved if funds could be provided for the securing of at least one distinguished speaker from outside the state.

UNIVERSITY INTELLIGENCE TESTS

During the year 1923-1924 the following routine work in the testing of students has been done:

School quarter	Number of students tested
Summer, both terms, 1923-1924.....	865
Autumn 1923-1924	2566
Winter 1923-1924	272
Spring 1923-1924	193
Total, 1923-1924.....	3806
Summer, first term, 1924-1925.....	569

On October 1, 1923, a new Secretary of the Intelligence Tests Committee, Dr. Herbert A. Toops of Teachers' College, Columbia University, assumed the duties of the administration of tests and research on the University Intelligence Tests to replace the former Secretary, Professor H. E. Burt, whose

time is taken up by teaching and administrative duties in the Department of Psychology. Dr. Toops devotes approximately half of his time to teaching and half to research on problems connected with the University Intelligence Tests. This arrangement in the future will make possible research on many urgent University problems. The plan for such research work for the present has been to study intensively certain personnel problems of one college rather than to attempt more extensive problems involving all colleges of the University. Two colleges at the present time are heartily co-operating in supplying data for one problem. Other colleges have volunteered to furnish problems as rapidly as they can be solved, and to furnish data for aid in their solution.

During the past year the following problems have been completed:

1. Tabulation of the distribution of intelligence within the different honorary scholastic groups of the University.
2. Compilation of a bibliography of approximately 1000 titles on "Vocational Guidance."
3. Compilation of a bibliography of 365 titles on "College and University Tests and Measurements."
4. Collection of questionnaire returns from approximately 110 most representative colleges of the country on the "Use and Administration of Intelligence Tests."
5. Collection of questionnaire returns on the use of intelligence tests from all colleges in the State of Ohio.
6. Construction of various form charts and calculating devices for increasing the efficiency of routine calculations.

The following work is in progress at the beginning of the academic year 1924-1925:

1. A study of the Efficiency of Academic Probation as an Incentive and as Discipline.
2. A thorough revision, on the basis of the best present practices in the country, of the University Intelligence Tests in the light of statistical analyses and the returns received from the nationally circulated questionnaire.
3. The derivation of practical means for predicting senior scholastic accomplishment of all present students in the College of Education.

With reference to the first of these three problems, it is evident that if probation is to justify itself it should act as an incentive to academic improvement. Statistics thus far available indicate that in all probability probation is ineffective in this respect. Work done to date indicates that the successes or failures of the first year of a student's career are extremely important in determining his scholastic success throughout his college career. The successes and failures of the college student during the first year of his career should be made the subject of extended investigations by this section.

This section should carry on investigation to determine the causes of failure of failing students. Preliminary research indicates that many college freshmen are extremely poor readers. Some can read no better than the average eighth grade student in our elementary schools. In the revision of the University Intelligence Tests, this important scholastic ability will be tested. The early detection of poor readers is but the beginning of the problem, however. Once such individuals are detected, further analysis and special coaching in "How to Study" courses is necessary. The intelligence section is unable to conduct this very desirable work because of inadequate stenographic and assistant help. Once the desired techniques are developed on a working basis, the handling of such students can be left to academic courses to be instituted for this purpose—such courses as the present Psychology 411, The Psychology

of Effective Study. It has been demonstrated during the past year that such work is quite effective in saving from failure certain students whose reading ability and methods of study are ineffective.

In a university the size of Ohio State there will be found many students who have mental maladjustments technically known as psychopathic tendencies. The proper diagnostic, educational, and psychiatric treatment of such cases is worthy of appropriation of special funds for the purpose. This problem in point of numbers of students involved is not as pressing as certain other immediate ones connected with the student's intellectual adjustments to scholastic demands, his choice of career, his changes of occupation, and related problems. In point of the seriousness of the maladjustment of the student concerned, such maladjustments are often far more serious than the above cases. The University should encourage research along this line by providing scholarships, and graduate assistantships for graduate study of these problems.

The most serious intellectual maladjustment of groups of students is in the case of the intellectually superior or gifted student. A far greater proportion of gifted students are satisfied with mediocre scholastic achievement than is true of the group of students who are not so intellectually brilliant. It is not to be expected that the mere urging of superior students to work up to capacity will be sufficient incentive, when graduation is possible by very mediocre scholastic accomplishments. The University should study the merits of the various reward-for-high-scholarship plans. The intellectually gifted student can at present be fairly accurately detected upon entrance to the University. Not all gifted students are intellectually gifted; some have mechanical, social, or other talents. The development of such talents by provision of the proper incentives to sustained effort is the highest task of the University.

This report can be appropriately concluded by pointing out the increasing value for research purposes of the cumulation of records now available from the University Intelligence Tests. There will shortly be available the test records of 20,000 students. Extremely important aids to the adequate analysis and solution of certain important University problems may be expected to result from a complete analysis of this material. These 20,000 intelligence records should be studied in relation to such factors as college marks received, participation in college activities, physical measurements, and capacities as determined by the records of the University Physical Education and Health Departments. The adequate carrying out of such large scale research problems awaits appropriations for Hollerith tabulating machine equipment for this purpose. Such machinery would render possible the solution of many large-scale problems which cannot now be attacked by hand tabulation methods.

Respectfully submitted.

B. R. BUCKINGHAM, *Director*.

REPORT OF THE DEAN OF THE COLLEGE OF ENGINEERING

PRESIDENT W. O. THOMPSON, *The Ohio State University:*

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report from the College of Engineering for the year ending June 30, 1924.

ENROLLMENT

	Fall Quarter	Winter Quarter	Spring Quarter
Architecture	53	65	58
Architectural Engineering.....	70	67	60
Ceramic Engineering.....	65	59	71
Chemical Engineering.....	117	114	102
Civil Engineering.....	229	225	229
Electrical Engineering.....	394	373	339
Mechanical Engineering.....	256	243	226
Metallurgical Engineering.....	39	39	34
Mine Engineering.....	52	50	49
General Engineering.....	2	..	..
Engineering Physcis.....	..	..	1
Unclassified	64	62	23
	1341	1297	1192

There was a decrease of 2.2 per cent in the total enrollment of the Fall Quarter over that of the corresponding Quarter for the preceding year. This decrease was due to the passing out of an exceptionally large graduating class resulting from very heavy registration just after the war. The entering class of this year showed an increase of 23.8 per cent over that of the preceding year. Records show that the normal increase for the College based upon a period of several years is about 13 per cent. This year shows a decrease even with the increase in the freshman class, due largely to the after war "peak load" which has been running through the College and which was graduated last year.

Under the semester plan the drop in enrollment between semesters was fairly constant at 8 per cent. Last year this drop between quarters was 5.5 per cent and 11.5 per cent, respectively.

Beginning with the year 1921 there has been a reversal of the relative size of first and second year registrations. This percentage runs 51 per cent for last year, while this year it is 12 per cent, a value probably more nearly normal. This difference in first and second year registration is due to the number of students entering the second year presenting credits earned at many Ohio institutions and at others outside of the state. It is our policy to encourage this plan, especially for those boys who reside in Ohio college towns. We realize the advantages to the student in beginning his university education at a small institution, where classes are small and where there is greater personal contact between teacher and student. We also know the great desirability of reducing the load upon our constantly overloaded plant. It is very evident that Ohio institutions will more and more serve as feeders to our College.

To those students contemplating entering the Engineering College we would particularly recommend the liberal training of their high schools rather than technical; and if situated and able to do so we would also advise the spending of one or more years in a local college before entering the second year of the Engineering College.

GRADUATES

The number of degrees granted at commencements during the year were as follows:

Bachelor of Architecture.....	9
Bachelor of Architectural Engineering.....	8
Bachelor of Ceramic Engineering.....	4
Bachelor of Chemical Engineering.....	21
Bachelor of Civil Engineering.....	39
Bachelor of Electrical Engineering.....	52
Bachelor of Mechanical Engineering.....	52
Bachelor of Metallurgical Engineering.....	6
Bachelor of Engineering in Mining.....	6
Bachelor of Engineering.....	2

 199

The total number of graduates is a decrease of 16 per cent over last year, due to the "peak load" factor referred to above. The Departments of Architecture and Civil Engineering gave an increase with the total decrease. It is expected that the number is now about normal and should so continue with, of course, a natural increase.

FACULTY AND INSTRUCTION

Practically all of the regular instructional force were on duty throughout the year carrying their usual heavy schedules. Assistant Professor George Frazer of the Department of Architecture resigned to return to Cornell University. Professor H. C. Lord, head of the Department of Astronomy, who had been in failing health for some time, was relieved of all work at the beginning of the Spring Quarter. Professor E. S. Manson, upon whom the responsibility for the operation of the department had rested for some time, carried most willingly the entire load of that department.

This second year of the newly established course in Survey of Engineering for freshman engineers proved fully as successful as the previous year and my comments upon the work as given in the Annual Report of 1923 are in almost every particular applicable to the work for this past year. This method of freshman student contact, which has now been in practice four years in the College of Engineering is becoming quite universal in other Engineering Colleges of this country.

The series of lectures given throughout the year under the caption of "Broaden Out Engineers" were most successful. This educational feature is under the direction of a committee consisting of representatives from the College Faculty and the Students' Engineering Council. A lecture series of the character given is proving not only of great value to our engineers, but the College also is greatly benefited through contact with the lecturers.

The lectures given during the year were as follows:

- Dr. O. C. Weist, Pastor First Community Church, "Present Conditions in Europe."
- Calvin W. Rice, National Secretary of the American Society of Mechanical Engineers, "Illustrated Travelogue of a Recent South American Engineering Trip."

Dr. George S. Lackland, founder of the Denver Labor College and the Denver Open Forum, "American Labor."

Robert Fouré, Assistant Professor of French, Captain in the French Army, "The So-called French Militarism."

Professor B. H. Bode, "Mark Twain on Moral Conduct."

P. E. Thomas, Warden of the Ohio Penitentiary, "The Penal Situation in Ohio."

L. A. Boulay, State Director of Highways and Public Works, "Ohio's Highways."

Colonel C. H. Birdseye, Chief Topographical Engineer with the United States Geological Survey, "Through the Grand Canyon," illustrated.

C. E. Crunsky, President of the American Society of Civil Engineers, "A Talk on the Broader Phases of the Profession."

NEW EQUIPMENT

The University broadcasting station, located in the machinery laboratory of the Department of Agricultural Engineering, went into operation last year. During the past year there has been a great improvement both in quality of service and character of program presented, due to the employment of a full-time radio operator and a program manager. This station holds the record of having broadcasted during the year more lectures than any other station in the United States.

The testing materials laboratory which Professor James E. Boyd has been planning for many years is now assured for the space in the Shops Building occupied by printing has now been vacated and considerable testing material equipment is on the grounds ready for erection.

While all departments in the College continue to greatly need additional equipment, there has been a decided step in advance in this direction, due to the assistance of the Morrill Fund. The demand for equipment will continue urgent until the Legislature makes an appropriation of such size as will give the Engineering College alone an amount equal to the present total appropriation.

BUILDINGS

The Department of Chemistry has experienced some relief in the completion of its first laboratory unit. The very unsatisfactory condition now prevailing in the continued use of the barracks will not be eliminated until the completion of the entire laboratory section and it is fully equipped. The second section is practically completed but there are no funds for equipment.

Brown Hall west extension has provided relief for University Architect and Departments of Architecture and Engineering Drawing, but Civil Engineering must continue in its present contracted quarters until the building is completed as was planned many years ago. An east wing on this building is to provide suitable executive office space for the College of Engineering.

The completion of the Mechanical Engineering addition to Robinson Laboratory which is now under way will place that department in a very superior position as regards laboratory space into which to expand and will provide excellent office and drafting room space for the Department of Machine Design.

The student load in the Department of Electrical Engineering continues in excess of that load just before the war. Classroom space is inadequate. That space now occupied by Agricultural Engineering and to be made available for Electrical Engineering upon the completion of an Agricultural Engineering Building will help that department greatly.

THE ENGINEERING EXPERIMENT STATION

The personnel of the Advisory Council of the Engineering Experiment Station for the year ending June 30, 1924, was:

E. A. Hitchcock.....	Director
D. J. Demorest.....	3 years
F. W. Marquis.....	3 years
F. C. Caldwell.....	2 years
Alpheus Smith.....	2 years
C. E. Sherman.....	1 year
J. R. Withrow.....	1 year

In my report for the year ending June 30, 1923, will be found a list of the projects which were active at that time. As a result of such projects the following bulletins and circulars have been published during the year:

Tapered Struts, a Theoretical and Experimental Investigation, Bulletin No. 25, by Professor James E. Boyd.

Climatological History of Ohio, Bulletin No. 26, by William H. Alexander, Director of United States Columbus Weather Bureau.

The Dead Burning of Dolomite, Bulletin No. 28, by James T. Robson, R. T. Stull, George A. Bole, and Professor James R. Withrow.

PROJECTS AUTHORIZED DURING THE YEAR

Public Utility Costs and Rates, by Professor C. A. Wright.

The Cause of Volume Changes in Fire Brick Due to Heat, by Professor A. S. Watts, G. A. Bole, and J. G. Phillips.

Investigation of Dolomite, by A. I. Andrews, G. A. Bole, and Professor James R. Withrow.

Removal of Pebbles and Clays for Manufacture of Heavy Clay Products, by Fred Heath, Professor A. S. Watts, and G. A. Bode.

Rate of Absorption of Hydrochloric Acid Gas, by Professor James R. Withrow.

Effect of Multiple Ignition on the Performance of Small Gas Engines, by Professor H. M. Jacklin.

The X-ray Analysis of Alloy Steels, by Professor F. C. Blake.

Three of the above projects are carried on through co-operative fellowship agreement between the United States Ceramic Experiment Station located in Lord Hall and the Engineering Experiment Station. This co-operative arrangement has worked most successfully during the past year and it is hoped that the plan will continue from year to year. Bulletin No. 28, The Dead Burning of Dolomite, is a product of this co-operative agreement.

Up to the present time there have been published by the College of Engineering and the Experiment Station 28 bulletins and 11 circulars. Several of the bulletins are out of print. This is unfortunate because the Station is receiving requests from all over the world. Although we feel that a very creditable showing has been made it is not satisfactory when considered in the light of possibilities. When we consider the high pressure of our University work upon the professors in the College of Engineering, to which they do give most conscientious attention, great credit is deserved for the results produced along investigation lines.

The greatest need of the Station is greater appropriations, so that there may be employed several full-time assistants who will be experienced, each in a separate field of engineering. Our Station has facilities for many lines of work and contact should be made with engineering enterprises throughout the state, so that they will understand that the Station belongs to the people

of Ohio and their problems are our problems. At the present time the Stations of Illinois, Iowa, Indiana, North Carolina, and Pennsylvania State College are receiving appropriations in excess of Ohio.

GENERAL CONSIDERATIONS

The attitude of our engineering students to do more than just "get by" is very gratifying. This feeling seems to prevail more particularly among the freshmen and the decrease in the number of failures during the past two years indicates much greater interest and application than heretofore. We certainly hope that in our desire to improve scholarship we will not so overstep ourselves that rules will be set up as will destroy the student enthusiasm now present.

Our faculty continues to maintain a most active interest in the advancement of engineering education through its participation in the activities of the Society for the Promotion of Engineering Education. The annual meeting of the Ohio section of this society was held at this University in April. Eight Ohio schools were represented at this meeting and 56 per cent of the total state membership were present. President Thompson welcomed the society.

The papers presented were:

Live Issues in Mid-Western Engineering Colleges, by William E. Wickenden, Director of Investigation of the Society for the Promotion of Engineering Education.

The Training of the Industries of Non-College Grade, by President John T. Faig of Ohio Mechanics Institute.

The Practical Side of Engineering Education, by R. H. Sweetser, assistant to vice president, American Rolling Mill Company.

Selection and Classification of College Students, by Professor Harold E. Buritt, Department of Psychology, Ohio State University

The annual meeting of the society was held in June at the University of Colorado, Boulder, Colo., and Ohio State University was well represented by five of her teaching staff. It was impossible for the undersigned to be present on account of being sent as a representative of the Appalachian Power Company to the London World Power Conference, Wembley Park, London, England, which was being held at about the same time as the society meeting. To attend this conference and at the same time visit the leading power stations in England and France necessitated an absence from University duties of about five weeks.

It is conceded that with possibly one exception, and that is the College of Education, there are no lines of educational activities in which more attention is being given to questions of education than in the field of engineering education. It is expected the wide investigation of this subject now under way and directed by William E. Wickenden will settle many questions and guide us in future actions. The great interest which our College of Engineering is taking in this activity, which is sponsored by the Society for Promotion of Engineering Education, is evidenced by a large co-operative committee of the College and by the Ohio State University membership in the society, which is in excess of that of any other institution in the United States.

Respectfully submitted,

E. A. HITCHCOCK, *Dean College of Engineering.*

ANNUAL REPORT OF THE COLLEGE OF MEDICINE

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report of the College of Medicine for the year ending June 30, 1924.

ENROLLMENT

During the year there were enrolled in the College of Medicine 280 students. There were 278 students in the four-year regular Medical Course and two were special students taking work in Public Health and Sanitation and Public-health Nursing. Of the total number of students enrolled in the College of Medicine, 270 were men and 10 were women. Attention is directed to the fact that the majority of students registered in the College of Medicine have either received their degree of Bachelor of Science or Bachelor of Arts or are candidates for those degrees. As in years past the faculty has been particularly anxious that all medical students secure the Bachelor's degree if possible before becoming candidates for the degree of Doctor of Medicine. This is comparatively easy to accomplish if the student has taken his pre-medical work in the Arts College of Ohio State University. I again direct attention to the fact that it would be highly desirable for other Ohio colleges to recognize the work done in the first two years of the College of Medicine so it would be possible for students who have taken their pre-medical work in various Ohio colleges to acquire the Bachelor's degree. It is not possible for the College of Arts of Ohio State University to grant the Bachelor's degree to students who have taken their pre-medical work in other colleges. Therefore, it appears to be particularly desirable for the colleges themselves to recognize the actual medical work done by their former students.

During the last year all freshmen students in the College of Medicine have been selected by the University Examiner on the basis of their pre-medical scholarship. A standard of 1.8 credit-points average has been insisted upon and as a result the class of students entering has been materially improved. The failures which have been incurred during the year have been largely among students who have taken their pre-medical work in colleges other than the College of Arts of Ohio State University. Obviously it is quite difficult for the University Examiner to evaluate scholarship standards of other colleges. It will be possible to develop increasing accuracy in this regard as time goes on. On the other hand it should be stated that some of the best students entering the College of Medicine have come from colleges other than the College of Arts of Ohio State University.

During the year 43 students received the degree of Doctor of Medicine; one certificate in Public-health Nursing was issued and nine certificates as Graduate Nurses from the University Hospital were granted.

FACULTY

Very few changes have taken place in the personnel of the faculty during the last year.

RESEARCH

Practical all of the departments in the College of Medicine have been actively engaged in some type of research. A considerable number of publications have been made in the various scientific journals. It is generally understood that in all the departments of the College of Medicine high grade teaching is the first prerequisite and in addition some type of active research in the particular field is absolutely necessary and desirable.

CURRICULUM DEVELOPMENT

Attention is particularly directed to the discussion in any report of 1922-1923 dealing with the subject of "Medical Education and Modern Medicine" and the discussion on the subject of "The Medical Curriculum and Medical Teaching". During the year just past we have attempted to put into operation the various policies which have been previously discussed. Certain revisions of the curriculum have been made which have been altogether beneficial.

UNIVERSITY CLINICS

Particular attention has been paid to the subject of the teaching of the clinical courses and the development of the University Clinics which the College of Medicine carries on at the University Hospital, St. Francis Hospital, the Children's Hospital, and the State Street Dispensary, as well as the very rapidly developing out-patient obstetrical service and the obstetrical service carried on in the Florence Crittenton Home, the Friends' Rescue Home, the Elizabeth Home, and Price Home for Colored Girls. During the year 370 women were delivered in the obstetrical clinic and all its branches. Pre-natal clinics are maintained at the State Street Dispensary as well as clinics for the care of women after delivery. Included herewith is a summary of hospital service from the University Hospital for the year ending July 1, 1924. The detailed hospital report is on file in this office.

SUMMARY OF HOSPITAL SERVICE FOR YEAR 1923-1924

Total number of admissions.....	1,848
Total number of patients discharged.....	1,810
Recovered	804
Improved	610
Nonimproved	139
Died	77
OPD	218
	— 1,848
Total number admitted to:	
Surgery	526
Medicine	482
Gynecological	124
Obstetrical	250
Pediatrics	127
G. U.	146
E. N. T.	193
	— 1,848
Total number births.....	183
Total number still born.....	4
Total number premature, alive.....	5
Total number premature, still born.....	3
Total number hospital bed days.....	23,654

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Surgery	12,116
Medicine	6,432
Obstetrics	4,869
Pediatrics	237
	<hr/> 23,654
Total number patients cared for in the operating room....	781
Total number patients examined in X-ray room.....	578
Total number of deaths.....	77
Mortality rate for the year.....	4.1

During the year special attention has been given to the development of orthopedic surgery in the various hospitals connected with the College of Medicine. At the State Street Dispensary a posture clinic has been maintained with a special nurse in charge.

Included herewith is a complete comparative report for the various dispensary clinics carried on at the State Street Dispensary. Attention is particularly directed to the comparison between the years 1921-1922, 1922-1923, and 1923-1924.

PATIENTS' ATTENDANCE SUMMARY 1923-1924

Period	VISITS					Total
	Summer 1923	First Quarter	Second Quarter	Third Quarter	June 1924	
Medicine	366	405	518	451	165	1905
Surgery	264	302	284	477	175	1502
G. U.	2152	2256	2550	2388	772	10118
E. N. T.	289	238	258	328	137	1250
Eye	188	260	238	180	95	961
Pediatrics	118	111	78	85	50	442
Dermatology	45	67	66	51	28	257
Neurology	39	33	40	49	22	183
Gynecology	38	61	76	71	13	259
Pre-Natal	74	108	129	150	57	518
Orthopedies	98	70	82	66	21	339
Posture	42	64	141	68	7	322
Totals.....	3713	3975	4460	4366	1542	18056

For Comparison:

Departments	1921-1922	1922-1923	1923-1924
Medicine	1,970	1,939	1,905
Surgery	1,398	1,362	1,502
G. U.	10,199	8,904	10,118
Eye	1,354	1,075	961
E. N. T.	1,465	1,362	1,250
Pediatrics	318	283	442
Dermatology	284	281	257
Neurology	284	196	183
Gynecology	345	260	259
Pre-Natal .....	...	253	518
Orthopedies	292	521	339
Posture .....	...	...	322
Totals.....	17,909	16,436	18,956

Total Attendance:

Period	New	Revisits	Total
July 1, 1921-July 1, 1922.....	3,690	14,219	17,909
July 1, 1922-July 1, 1923.....	3,396	13,040	16,436
July 1, 1923-July 1, 1924.....	5,497	13,559	18,056

THE OHIO STATE UNIVERSITY

Summary—First Visits:

Period	Male	Female	Boys	Girls	Total
Summer 1923.....	1,250	1,250	108	104	2,712
First Quarter	365	257	104	92	818
Second Quarter ...	383	300	86	82	851
Third Quarter	325	244	120	133	822
June 1924	131	104	26	33	294
Total.....	2,454	2,155	444	444	5,497

By Race:

	Colored	White	Total
Summer 1923	74	185	259
First Quarter	186	413	599
Second Quarter	165	441	606
Third Quarter	214	396	610
June 1924	78	135	213
	717	1,570	2,287

	New	Revisit	Total
Night G. U.			
Summer 1923	1,063	1,063	2,126
First Quarter	219	1,912	2,131
Second Quarter	245	2,198	2,443
Third Quarter	212	2,095	2,307
June 1924			
	1,820	7,959	9,779

Comparison	New	Revisit	Total
July 1, 1921-July 1, 1922.....	1,024	8,288	9,312
July 1, 1922-July 1, 1923.....	824	7,488	8,312
July 1, 1923-July 1, 1924.....	1,820	7,959	9,779

PRE-NATAL CLINIC

Period	New	Rivisits	Total
Summer 1923	30	44	74
First Quarter	34	74	108
Second Quarter	48	81	129
Third Quarter	39	111	150
June 1924	17	40	57
Totals.....	168	350	518

For Comparison	New	Revisits	Total
1922-1923	101	152	518

Color	Black	White	Total
Summer 1923	15	15	30
First Quarter	21	13	34
Second Quarter	21	27	48
Third Quarter	16	23	39
June 1924	7	10	17
Totals.....	80	88	168

For Comparison	Black	White	Total
1922-1923	55	46	101

POSTURE CLINIC

Opened September, 1923	New	Old	Total
First Quarter	19	87	106
Second Quarter	8	133	141
Third Quarter	2	66	68
June 1924 .....	..	7	7
Totals.....	29	293	322

By Sex:

	Male	Female	Boys	Girls	Total
First Quarter	9	10	..	..	19
Second Quarter .....	..	1	3	4	8
Third Quarter	1	1	..	..	2
June 1924 .....	..	..	..	..	..
Totals.....	10	12	3	4	29

By Color:

Black	White	Total
7	22	29

In all the University clinics an attempt has been made to standardize all procedures and to simplify and make more accurate all records. The University Hospital staff has issued a comprehensive statement entitled "Professional Standing Orders," which covers in detail the various standard hospital procedures. Staff meetings at the various hospitals have been held regularly during the year, at which time various problems of hospital procedure have been discussed and scientific papers presented.

The Department of Pathology has been particularly active during the year in the field of clinical work. The average number of clinical procedures per week being approximately 200. The department has also conducted 101 autopsies at various hospitals connected with the College of Medicine.

TRAINING SCHOOL FOR NURSES

Attention should be directed to the fact that during the year considerable reorganization has been effected in the Training School for Nurses in the University Hospital and an increasing number of students are applying for admission. The appointment of Miss Ruth K. Snowden, R.N., as principal of the Training School for Nurses has materially strengthened the instructional work.

CONCLUSION

The College of Medicine looks forward with pleasant anticipation and pleasure to the entrance into the new building, Hamilton Hall, on the University campus. In this new building it will be possible to do much more effective teaching work in the fundamentals. Further changes and reorganization will be deferred until the College of Medicine is firmly established in its new plant on the University campus. The completion of the University Hospital which is now beginning construction will provide adequate clinical facilities.

Respectfully submitted,

E. F. McCAMPBELL, *Dean College of Medicine.*

ANNUAL REPORT OF THE COLLEGE OF PHARMACY

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report for the College of Pharmacy for the year ending June 30, 1924.

ENROLLMENT

The enrollment of the College continues to show a gradual increase over that of previous years, the total number of students registered being 306. Of this number 19 were women and 287 men. As a matter of information it should be noted that of this number, but two were admitted under the old law as special students. This is a matter of great satisfaction in that it shows that the high school graduation requirement, for entrance, has not reduced the number of students entering college, as was predicted when the law went into effect. In addition quite a number of our students entered with advanced college credits of from one to three years.

PROGRESS

In reporting the progress of the College it is a matter of great gratification to be able to report that the educational requirements, governing the practice of pharmacy, in the state are among the highest. This applies not only to the requirements exacted by law, but also to those of the Examining Board before whom the applicants must appear to obtain registration as an assistant or registered pharmacist. In both instances the state stands in the forefront so far as educational requirements are concerned.

In keeping with these it has been our constant aim to keep in advance of these requirements and prepare our students not only to meet these, but to fit them to render a better and more intelligent service in the communities where they may be located.

As announced in our report of last year the schools holding membership in the American Conference of Pharmaceutical Faculties adopted a minimum three year requirement to go into effect in 1925. The American Association of Boards of Pharmacy has also adopted quite a comprehensive requirement governing the recognition of schools and colleges of pharmacy. Foremost among these we find the minimum three year requirement. In addition they formulated numerous other requirements and regulations governing the schools and the work offered, the courses of instruction, laboratory equipment, graduation requirements, admission, educational training of the faculty, etc.

In keeping with these advances the Ohio State Pharmaceutical Association, at a recent meeting, voted to approve the three year requirement for graduation. Before this can become a part of the law requirement, regulating the registration in Ohio, it will be necessary to amend the existing laws. Since the plan, however, has the approval of the State Association there is little doubt but that the amendment will be adopted. It is, therefore, quite apparent that not only national, but state associations are rapidly recognizing the necessity for increased educational standards for pharmacists.

In view of the foregoing statements we are planning to put into effect the three year curriculum beginning with the college year 1925. The adoption of this requirement marks a distinct forward movement in pharmaceutical education in Ohio.

The adoption of these higher requirements will, we believe, not only attract a higher class of students, but will enable the college to turn out better trained and more efficient graduates. The test of the value and the wisdom of the change, however, should not be measured entirely on the increased efficiency and ability of the graduates to render an intelligent service. While these qualities are highly essential, from many points of view, they are not the only ones to be desired. Along with and foremost among these qualifications must come the realization that the study of pharmacy is not for the mere purpose of securing a license to conduct a drug store. Rather that the training is to fit them to enter into a profession with a long and honorable history, with ideals and traditions of an unselfish service. If, therefore, we can bring about the realization of these ideals along with a better and broader technical and business training, then the new requirement may be considered as worth while.

It is quite evident that the adoption of the minimum three year curriculum will broaden the scope and character of the work offered in the College. This increase in the scope of work will not only apply to the work offered in the College of Pharmacy, but also to a limited number of courses offered in some of the other colleges of the University. While these details have not been completely worked out it is to be hoped that whatever minor budget problems may result, they may meet with your approval.

FACILITIES

At the time the freshman chemistry was moved from the old laboratory one of the large laboratories, in the basement, was assigned to the College of Pharmacy for use as a general laboratory in pharmacy. At that time it was thought that this would provide ample laboratory space for a number of years. The constantly increasing number of students has, however, practically taken up this space and should the ratio of increase still continue for the coming year we will find it extremely difficult to provide working space for them. This congestion will be especially emphasized when we go on a three year basis and in consequence increase the laboratory work in advanced courses. It is to be hoped, therefore, that more space may soon be provided to care for this increase.

One of the pressing needs for better laboratory facilities is to be found in the course in pharmacognosy. The present laboratory is entirely inadequate not only in size, but also in suitable equipment. The laboratory we are now using for this purpose was formerly used by students in the advanced work in pharmacy. The equipment is therefore in no way adapted to the work in pharmacognosy, as a result the students have been compelled to work at a great disadvantage and we have not been able to accomplish the work we should.

We are badly in need of this laboratory for the use of the advanced students in pharmacy. As it is now arranged these students are working in the large laboratory along with a great many other students and as a result they do not have the space for carrying on their work.

In many instances it is necessary for them to leave their apparatus set up for a day or more and under present conditions this is often broken or misplaced by some of the other students. Some provisions should therefore be made to provide suitable laboratory space and equipment for this work. This can be done by again using the former laboratory, but if this is done we must then provide laboratory space and equipment for the work in pharmacognosy if we are to keep this work up to any degree of efficiency. It is therefore to be hoped that as the Department of Chemistry moves into the new building that suitable laboratory space will be provided in the present Chemistry Building.

Last year a grant was made to provide for some much needed equipment in the way of balances, microscopes, etc. This has been of the greatest help in caring for the increasing number of students. It did not, however, entirely relieve the needs and we trust that these may soon be provided.

FOUR-QUARTER PLAN

While the College, in common with the other professional colleges of the University, is not offering work in the Summer Quarter we have attempted to carry out the spirit and intent of the plan by providing a number of repeat courses in succeeding quarters. While this has greatly increased the teaching load of the instructors we believe that the results achieved have more than warranted the plan. Such a provision has not only enabled us to increase our standards, but at the same time made it possible for students, who for various reasons are compelled to withdraw from the University, to return and take up their work with but little loss of time.

DISPENSARY

In our report for last year we called attention to the Dispensary service offered by the College of Pharmacy for the students of the University in conjunction with the Student-health Service. We again wish to emphasize the importance of the work and the value of the service rendered. While it is true that the service rendered is of distinct value to the students in pharmacy they alone are not the only ones benefited since the service is extended to all students in the University. The past year we have been able to have a closer supervision of the work by a competent dispenser. As a result the experience gained by the pharmacy students has been largely in the nature of regular instruction in dispensing. This being the case we would especially emphasize the fact that the dispensary is not run as a business proposition, but rather as a laboratory course in dispensing and under the direct supervision of an instructor. In this way the students get a most varied and highly valuable experience in this phase of their work. Indeed it is an experience that it would be hard to duplicate out in actual practice. In this connection we wish to state that this has been made possible largely through the very cordial co-operation of the Director of the Student-health Service and his assistant.

INSTRUCTION

On account of the large increase in the number of students we were granted a new instructor. For this position we secured the services of Mr. William E. Keyser. In this selection we were most fortunate as he has proven to be

a most excellent instructor and he has brought into the department not only a considerable amount of practical experience, but also a great enthusiasm for the work.

The teaching load of the instructors, in the College, has been heavy and carried on at more or less of a disadvantage due to lack of a sufficient number of classrooms in the Chemistry Building. This has necessitated the holding of classes in various other buildings on the campus thereby practically preventing the use of apparatus and materials for demonstrating purposes since it has been out of the question to carry such material from one building to another. We tried to overcome this by splitting the classes up into smaller sections, but this was not always possible and we were therefore only partially able to do so.

Throughout the year there has been a fine spirit of loyal and enthusiastic co-operation given by all the instructors and we wish at this time to express our high appreciation of this enthusiastic and hearty support.

ACTIVITIES

During the year several of the instructors have kept in close touch with the practical side of pharmacy by doing relief work in various stores of the city. Such work serves to familiarize the men with the practical side of the subject and the various problems to be met with. In view of such experience it cannot be said, as is often done, that the instruction is given by men unfamiliar with the varied problems of pharmacy as met with in every day work.

During the Drug and Health Show, held in April, a number of the instructors and students took an active part in the program and helped make the show a success.

In the survey being made, by the Commonwealth Foundation, of the drug stores in the United States, Mr. Brown has had charge of the work in this district. In carrying out the work he has visited and studied most of the stores in Columbus and the neighboring cities. This has enabled him to meet not only the men owning or managing the stores, but also the clerks and has given the College a closer and a more personal contact with them. This we believe will be beneficial to the College and the University as well.

In explanation of the study undertaken by the Commonwealth Foundation it may be stated that the original intention was to study the problem from the functional viewpoint. However when the work was organized it was found that there were many problems of a practical and technical character which involved teaching problems and other features and that these were so closely related that it would be difficult to separate them. It was then decided to make the study a comprehensive one and include all phases and problems and to study not only the practical but also the technical problems as well as the schools and their organization.

The above work is being carried out under the direction of a representative of the Commonwealth Foundation and a committee from the American Conference of Pharmaceutical Faculties. Mr. Dye is a member of this committee and is taking an active part in the work. In addition he was a member of the special committee appointed by the State Pharmaceutical Association to study and report on the advisability of adopting the minimum three year course.

Respectfully submitted,

CLAIR A. DYE, *Dean.*

ANNUAL REPORT OF THE DEAN OF THE GRADUATE SCHOOL

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and Board of Trustees, the annual report of the Graduate School for the year ending June 30, 1924.

ENROLLMENT FOR THE YEAR 1923-1924

The attendance during each of the four quarters of the year as well as the total attendance and total number of degrees granted, is given in the following table:

	Summer Quarter	Autumn Quarter	Winter Quarter	Spring Quarter	Total Duplicates	Net Total	Degrees Granted Master's	Ph.D.'s
Men.....	388	305	300	349	681	661	100	22
Women....	125	113	88	103	159	280	32	2
Total...	523	418	388	452	840	941	132	24

As shown above, the total registration for the year 1923-1924 was 941. The following table gives interesting information as to the largest groups included in the registration:

Graduate Assistants and Assistants.....	115
Teachers and Principals (this includes teachers in colleges other than the Ohio State University).....	307
Superintendents of schools.....	47
Members of the instructional force of the Ohio State University above the rank of Assistant.....	58
Fellows.....	21
Scholars.....	16
Total.....	564

The distribution of the graduate students according to the departments in which they registered, is given in the following table:

Department	Net Total	Department	Net Total
Accounting	6	Geology	2
Agricultural Chemistry	18	German	1
Agricultural Education	3	History	8
Anatomy	2	American	15
Animal Husbandry	3	European	10
Bacteriology	7	History of Education	2
Botany	25	Home Economics	8
Business Organization	16	Horticulture	2
Ceramics	4	Latin	11
Chemistry	91	Mathematics	19
Civil Engineering	1	Mechanical Engineering	2
Dairying	4	Mine Engineering	1
Economic and Social Geography.....	1	Pathology	1
Economics	20	Philosophy	7
Electrical Engineering	1	Physics	17
English	72	Physiology	3
Farm Crops	4	Political Science	9

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Department	Net Total	Department	Net Total
Principles of Education	23	Social Administration	1
Psychology	45	Sociology	13
Romance Languages	3	Soils	7
French	12	Veterinary Medicine	4
Spanish	11	Zoology and Entomology	47
Rural Economics	8	Special Students	209
School Administration	162		

UNIVERSITIES AND COLLEGES REPRESENTED IN THE GRADUATE SCHOOL

In the table below are listed those colleges that have had two or more graduates registered in the Graduate School during the year 1923-1924.

Name of College	No. of Graduates	Name of College	No. of Graduates
Allegheny College	3	Michigan Agr. College	2
Amherst	3	Mt. Union College	10
Baldwin-Wallace College	3	Muskingum College	22
Bates and Conn. Wesleyan	2	Northwestern University	8
Berea College	3	New York State Teachers' College	2
Bethany College (W. Va.)	5	Oberlin College	5
Bluffton College	6	Ohio Northern University	27
Bowdoin College	2	Ohio State University	363
Capital University	6	Ohio University	49
Catholic University of America	2	Ohio Wesleyan University	54
Cedarville College	6	Otterbein College	26
Colgate	2	Park College	2
Colorado Agricultural College	2	Peking Govt. Teachers' College	2
Columbia University	4	Pennsylvania State College	5
Cornell College (Iowa)	2	Purdue University	9
Cornell University	5	Rio Grande College	2
Defiance College	6	Smith College	3
Denison University	25	Syracuse University	3
DePauw University	3	Toledo University	3
Dickinson College	2	University of California	2
Earlham College	3	University of Chicago	6
Goshen College	2	University of Cincinnati	2
Greenville College	2	University of Illinois	8
Grove City College	2	University of Michigan	5
Harvard University	6	University of Minnesota	2
Haverford	2	University of Pennsylvania	2
Heidelberg University	14	University of Washington	6
Hiram College	5	University of Wisconsin	3
Hope College	3	Valparaiso University	2
Indiana University	3	Western College for Women	4
Kansas State Agricultural College	5	Western Reserve University	2
Kenyon College	3	West Virginia University	7
Leland Stanford University	2	Wilberforce	2
Manchester College	3	Wilmington College	6
Marietta College	12	Wittenberg College	14
Massachusetts Agr. College	2	College of Wooster	15
Miami University	17		

Seventy-eight other colleges are represented by one graduate each.

SCHOLARSHIPS AND FELLOWSHIPS

The number of Scholarships and Fellowships offered during the year 1923-1924 and the source of each, are as follows:

University Fellowships	9
University Scholarships	16

The E. I. duPont de Nemours & Co. Fellowship.....	1
The Grasselli Chemical Company Fellowship.....	1
The Robinson Fellowship	1
Bureau of Mines-Engineering Experiment Station Fellowships.....	3
The Young Men's Christian Association Fellowships.....	2
National Limestone Association's Fellowship.....	1
Naitonal Research Council Fellowships.....	2
The General Motors Corporation Fellowship.....	1

In the award of these Fellowships and Scholarships, the Graduate Council has had a wide choice, as the number of applicants has been very large. The Council has given to the whole subject most serious consideration and the candidates selected have in every instance proven worthy of the honor.

FOREIGN STUDENTS

Among the factors which make for international good will is the interchange of students among the colleges of the various countries. There are at present about 12,000 students from nearly 100 foreign countries, in the various schools and colleges of the United States. Many of these are registered in our graduate schools. In our own Graduate School, during the present year, 27 foreign students have been registered as shown in the following table:

Armenia.....	1
Bulgaria.....	1
China.....	19
India.....	2
Japan.....	1
Philippine Islands.....	1
South America.....	2
Total.....	27

These students, almost without exception, are of a high order of ability and very appreciative of the opportunities afforded them. Many of them are handicapped at first because of the lack of knowledge of our language, but it is a very rare instance in which they fail to meet our requirements, although additional time is required.

AD INTERIM WORK

The Graduate School is constantly in receipt of requests from prospective students to be allowed to do at least a portion of their work for the advanced degree in absentia. The Graduate Council has always allowed this privilege under very restricted conditions, especially to teachers who are able to attend the summer quarters only. Such students may take a limited amount of work during the ad interim periods between the summer quarters and thus, to a certain extent, diminish their residence requirement. In order to more definitely define our policy in regard to such ad interim work, the Graduate Council, during the present year, adopted the following report:

1. The maximum credit for ad interim work that may be counted towards a Master's degree shall be limited to 15 quarter hours.
2. The maximum credit for such ad interim work during the period of any one school year shall be limited to eight quarter hours.

LANGUAGE REQUIREMENT FOR THE MASTER'S DEGREE

The Graduate Council has often had before it the question as to whether any definite modern language requirement should be made for the Master's

degree; and especially as to whether such requirements should include French and German. This whole subject was referred to a committee consisting of Professor Bloomfield, Chairman, and Professors Bode and Coker. The committee, after a thorough investigation of the subject, made the following report which was adopted and which now stands as the policy of the Graduate School:

The committee does not recommend a foreign language requirement for the Master's degree.

The reasons for this decision are: First, that the usual purposes for which the Master's degree is sought do not demand such a requirement; and, second, as to those candidates for whom a foreign language requirement would be obviously appropriate, the situation with regard to the foreign language requirement for the Doctor's degree is at present too unsatisfactory to warrant extending the requirement to the Master's degree.

The Council likewise changed the modern language requirements for the degree of Doctor of Philosophy to read as follows:

A reading knowledge of French and German sufficient to enable the student to use these languages for the purpose of research in his major work is required. The language requirements must be satisfied before the student is admitted to candidacy.

It will be noted that the above action allows no substitution of other languages for French and German. Departments may make additional requirements. It was thought, however, that the degree of Doctor of Philosophy should carry with it a suitable reading knowledge of the two languages listed above.

CANDIDATES FOR THE DEGREES OF DOCTOR OF MEDICINE AND OF MASTER OF SCIENCE

The adoption of the Four-quarter Plan has made it possible for the students in the College of Medicine to secure their Master's degree along with their medical degree. Students desiring to obtain both degrees have raised the question as to whether or not any of the work required for the degree of Doctor of Medicine may also be counted towards the degree of Master of Science. The Graduate Council, through its committee, made an extended study of this question and as a result submitted the following resolution which was adopted by the Graduate Council.

Students regularly qualified for admission to the Graduate School may be enrolled in 600 and 800 courses in the medical sciences without consideration of their previous, coincident, or contemplated enrollment in the College of Medicine. However, no student shall be allowed to elect more than one-half of his major work in the required medical curriculum.

LIBRARY APPROPRIATION

The Library Council, in the distribution of the funds allotted for the purchase of books, set aside \$20,000 to be distributed by the Graduate Council, such distribution, however, to be approved by the Library Council. This fund was to be used for sets or collections of books of special importance in carrying on research work under way at the University. This fund has made it possible to very materially assist a number of departments in carrying out important investigations by supplying them with certain sets of books necessary for the progress of the work. The Graduate Council believes that such an allotment to the Council is a wise procedure and earnestly requests its continuance.

LECTURERS

The Graduate Council has been instrumental in bringing to the University a number of distinguished scholars who have given one or more lectures of primary interest to the members of the instructional force and to the graduate students. There is no question but that in this way a great deal has been done to stimulate research work in the University and indeed to catalyze scholarly work throughout the University. In many instances it has been possible to have the lecturer take charge of the seminary in his particular field of study and then in the evening to give a lecture of more general interest. It is hoped that it will be possible to stress more work of this character. The University owes it to its advanced students to give them the opportunity of seeing and listening to the great scholars in their different lines of work. Not only is it desirable to bring to the University distinguished scholars for one or two lectures; it is even more desirable to bring here such men for courses of lectures extending through the Quarter and for which graduate credit will be given. The Graduate Council hopes to establish such lecture courses in the very near future.

Among the lectures given at the University during the year, which were of essential interest to graduate students, may be mentioned the following:

Mr. Julius Barnes, President United States Chamber of Commerce; subject, "Opportunity for Trained University Men in the World of Commerce."

Professor Artur Biedl, eminent biologist from Prague, Czecho Slovakia; subject, "Conditions of European Scholarship in Central Europe."

Mr. Gutzon Borglum, sculptor; subject, "American Sculpture."

Dr. Benjamin T. Brooks of the Mathieson Alkali Works of New York; subject, "Some Non-political Aspects of Petroleum."

Dr. A. M. Buswell, Professor of Sanitary Chemistry, University of Illinois, and Chief of Illinois State Water Survey Division; subject, "Activated Sludge Process of Sewage Disposal."

Professor Americo Castro, Professor of Romance Languages at the Universidad Central in Madrid; subject, "Ideology of Cervantes."

Mr. R. N. Cram, Instructor in Landscape Architecture at Harvard University; subject, "Old Villa Gardens of Italy."

Dr. Edward T. Devine, former Professor of Social Economy at Columbia University.

Professor Albert Feuillerat, Honorary Vice President of the Shakespeare Association (London), two lectures; subjects, "Record Searching in England," and "Les Qualites Intellectuelles du Francais."

Professor Moses Gomberg, Professor of Chemistry, University of Michigan; subject, "Organic Radicals."

Professor J. H. Hughes, Professor of Chemistry at Kansas Agricultural College; subject, "Experimental Rickets in Birds and Its Cure by Dietary Control and by Ultra Violet Light."

Professor V. Karapetoff of Cornell University; subject, "The Electron."

Dr. E. V. McCollum of Johns Hopkins University; subject, "Diet and Human Efficiency."

Professor Jean Massart, Professor of Botany, University of Brussels; subject, "The Climate and Vegetation of Brazil."

President Arthur E. Morgan, Antioch College; subject, "The Relation of Knowledge to Intuition in Engineering."

Professor H. F. Osborn, President American Museum of Natural History, New York City.

Professor Chalfant Robinson of the Department of History of Yale University.

Professor Henry Norris Russell of Princeton Observatory; subject, "Modern Interpretation of Stellar Spectra."

Sir Arnold Theiler, Director of Veterinary Education and Research, University of South Africa; subject, "The Animal Plagues of South Africa."

Mr. Leslie Vickers of the National Industrial Convention Board of New York; subject, "Immigration."

Dr. A. J. B. Wace of the British Museum, London; subject, "Mycenae, the Wonder City of Prehistoric Greece."

Professor J. H. Walton, Professor of Chemistry, University of Wisconsin; subject, "Factors Affecting Rate of Crystallization."

Professor R. M. Wenley of the University of Michigan; subject, "Immanuel Kant: His Life and Work."

Mr. Sidney F. Wicks, Editor Manchester (England) Guardian Weekly; subject, "The Labor Party and the Labor Government."

DEVELOPMENT OF THE GRADUATE SCHOOL

The Graduate School was organized in 1911. Registration for the first year was 178. The attendance has gradually increased until during the present year it reached 941, and will undoubtedly pass the 1000 mark during the coming year. The number of degrees granted has increased from 52 in 1911-1912 to 156 in 1923-1924. Moreover, during 1923-1924, 24 candidates were granted the degree of Doctor of Philosophy, a number larger than was granted during the first six years after the organization of the Graduate School. One hundred and fifty-one different colleges or universities are represented by one or more students registered in the School.

But the growth of a graduate school is not to be measured in numbers but rather in the development of the spirit of scholarly work. To one who has been associated with the Graduate School since its organization, the development of the appreciation of research and productive scholarship has been most gratifying and the output of important investigations shows that our University is rapidly taking a place with the greater universities of our country.

There are many factors that enter into the development of a graduate school, but the Graduate Council has no misconception as to the relative importance of these different factors. Buildings, apparatus, and equipment of all sorts, are essential, but the real factor is the character of the members of our instructional force who are conducting the work of the graduate students. It is a pleasure to know that the University recognizes this fact and is making every effort not only to develop here at the University but also to bring in from other fields men who are leaders in the various fields of study. With these conditions existing, the future of the Graduate School is assured.

In conclusion, I wish to express to you, Mr. President, and to all the members of the Graduate Council, my very hearty appreciation for the co-operation that is so essential in the development of the scholarly work of the University.

Respectfully submitted,
WM. MCPHERSON, *Dean of the Graduate School.*

ANNUAL REPORT OF THE DEAN OF WOMEN

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual reports of the Dean of Women for the years 1922-1923 and 1923-1924.

Each year the report from the office of the Dean of Women could be very much the same in character, for it could read, "A very real effort has been made to reach as many of the women students as possible and give to them a broader conception of the meaning of the term 'College Education.'" Each year adds new features to the work, and with the changing characteristics of the senior leaders emphasis must be laid on different points, for in the last analysis it is the students themselves who must be the final leaders.

In as much as the exact field of the Dean of Women's work has not been specifically outlined, I am taking the liberty of inserting an adapted form of a chart made by Miss Shirley Williamson of the University of California, showing the relation of the Dean of Women to campus and non-campus interests and shall attempt to follow these same divisions in this report.

As in previous years the chief effort and most of the time of this office has been devoted to campus and near campus problems, which can be dealt with under three titles: "Better Housing Conditions," "Higher Scholarships Among Women," and "More Co-ordination Among Student Activities for Women."

OFF-CAMPUS

As to off-campus and state influence, it has been with pleasure that I have seen the recognition of the attitude of the University towards its women students grow in the state at large. Comparatively little can be done to comply, however, with requests to speak to high school girls in the various towns by an individual who is attempting to meet the routine demands of a community such as Ohio State has grown to be. I have responded to two requests from Akron, two from Cleveland, one from Lake Erie College, one from Springfield, and one from Westerville. Others, with the exception of requests from Columbus itself, have been declined because it seemed impossible to be away from my office.

CONVENTIONS

Two national and one state meeting have been attended. In Chicago my Assistant Dean, Miss Jessica Foster, and I attended at our own expense the national convention of Deans of Women held February 25 to 28. This was a meeting of considerable importance because of the forums and opportunity of personal discussions with women from all parts of the United States, and in this case also from England, Wales, and Germany, who are working with strikingly similar problems. It is an occasion for obtaining consolation as well as new ideas.

At Easter time the University saw fit to send me to Washington as a delegate to the American Association of University Women's Convention. Here most able college women from the United States and Europe presented prob-

lems of educational and civic interest for the consideration of American college women and reviewed the activities of the past year and planned for a coming year of even greater service. Messages brought by international delegates showed conditions among women of other nations. Wales, with her appeal for a real peace movement among the nations, was particularly striking.

The state meeting of Deans of Women was held in Columbus at the same dates as the state meeting of Presidents and Deans. As chairman of this group it became my duty to preside at the meetings Friday morning and afternoon, as well as at the noon lunch given at the Chittenden. Only 15 members of the state organization were present, but they were most cordial in their expression regarding the value of the conference.

HOUSING

Miss Foster, the Assistant Dean of Women, has had as her especial field the inspection and supervision of rooming houses and sorority houses. Her work along this line has fitted itself into a thesis submitted by her in June for a Master's degree and entitled "The Housing of Women Students" (filed in the Ohio State University Library). Approximately 800 women are housed in these privately operated rooming houses and the constant struggle of the Assistant Dean is to supply an adequate number of houses which represent acceptable physical surroundings and a refined atmosphere. The greatest number of these rooms must be at about the same prices as the dormitories and located within easy walking distance of the University. The insistence by the University that women establish their residence for the year and abide by certain rules of conduct has made women students more popular as roomers, although they are conceded to be "more trouble" than men students.

SORORITY HOUSES

The sorority house has this year offered complications in the housing scheme. Twenty-four, instead of some half dozen houses, are being maintained and the tendency of these groups is to overcrowd their houses for financial reasons. It is to be very decidedly recognized that the sorority house is a very great improvement over the sorority club rooms maintained at one time on the second floors of the High Street stores.

It is difficult, however, to convince these young people that space adequate for beds and dressers is not adequate for satisfactory University study and that provision must be made for home study for every girl. "The girls can study in the Library and "We must have this many in the house to meet expenses" are the answers to the inspector's objections to overcrowded conditions. Two hundred dollars a month for an unfurnished house in which not more than 12 girls and their chaperon should try to live has been brought about by the increasingly keen competition for good looking sorority houses located within very restricted districts. Unless decided means can be devised for the supervision of expense accounts, some of these inexperienced groups of young people may find themselves facing real deficits. In view of the attitude the University has always taken regarding the student and his unpaid debts it might be possible for the University authorities to insist that books be submitted yearly by all student organizations buying or renting houses and which cannot show a "fund on hand" equal to a given per cent of their year's budget.

Another problem not yet solved is that of adequate responsibility somewhere in these households for taking care of violation of social rules, illness, or neglect of University work. Rather decided rulings have been made for next year regarding duties of chaperons.

LIGHT HOUSEKEEPING

Miss Foster's investigations have included an enlightening account of the student who does her own cooking in "light housekeeping rooms" and who in most cases either for reasons of economy in time or money is not feeding herself properly and is being too largely shut off from acquaintance with her fellow students. It may be of interest to note as the most extreme case that of a student who allows herself \$1.50 a week for food declines to be assisted by a loan fund, is at present too nervous to live amicably in a house with other students, but does not recognize the danger signals.

To meet this growing factor a co-operative house has been planned which is to give to 15 girls the opportunity to live in a house of their own at cost. A housemother is to be provided, who will direct the running of the house by the girls themselves.

"SELF-HELP GIRLS"

The margin student who must earn nearly, if not all, of her own expenses while attending college seems to be increasing in numbers. Each year a few cases of nervous breakdowns among these girls make us sorry they felt that a college education was so desirable. All reasonable efforts are made to discourage these girls from coming, in as much as few girls can earn their way and maintain a proper academic standard without sacrifice of health.

Approximately 35 girls worked this past year for their room and board in private families and a very much larger number earned a portion of their college expenses by work done between class hours or in the evening. When it becomes necessary for any young woman to give more than three and a half hours a day to such work she is advised to reduce her University schedule in order to maintain high standards, even though she takes longer to complete her course.

LOAN FUNDS

The five Loan Funds for women continue to be available. The Women's Student Government Loan Fund has been used to the extent of \$1000 this year, and in its third year of operation the committee in charge can still report no failure to repay money borrowed. These funds are never granted to students with carelessly maintained academic records, and although the committee demands no guarantors and no interest the borrowers have repaid promptly.

GRADES

On every possible occasion the student is made to feel that she is being judged by her academic attitude and standing. Sorority initiation, participation in committee work, office holding, and positions in dramatic cases are not possible to the girl who is below par in her scholastic record. Comparison of grades shows a decided change for the better among girls prominent in campus activities. There was only one case this year of ineligibility among girls due to holding positions in women's student organizations.

UNSATISFACTORY GRADES

The interviews held each quarter by my Assistant Dean and myself with girls who have had more than one unsatisfactory grade in the preceding quarter's work led often to the discovery of very real handicaps under which these young women are laboring. They are due to health, financial overstrain and worry, uncongenial living conditions, inadequate high school preparation for certain lines of work, or wrong methods of study.

In many instances these conditions can be so altered as to make successful study possible. The ease with which many students have met the demands of their high school classes is often misleading to them in their college classes. "I never had to study in high school," "I had never taken examinations," "I didn't know I wasn't getting it," "I didn't start working early enough in the Quarter" are replies which we meet constantly.

The reports of all unsatisfactory grades among the members of a given sorority are sent each Quarter to the respective chapter presidents with the request that they investigate and report on possible means of correcting these conditions. Their reports are at times most gratifying and their interest is always keen because of the scholarship cup on the horizon.

Student organizations may curtail social privileges or remove them for a given length of time from a member of their group who seems to them to need such discipline, and it is surprising to see how often this is actually done.

STUDENT GOVERNMENT

Except in grave cases matters of discipline have been handled by the Council of Women's Student Government. The Vice-President has charge of the enforcement of house rules in student rooming houses, acting through the House Presidents. Dorothy Blue was a most tactful and capable young woman, gaining the confidence and co-operation of householders and students, and creating a remarkable fine spirit throughout the student houses.

One of the creative undertakings of the Council this year was the formation of a group known as Student League of Women Voters, a non-partisan organization which hopes to ally itself to all women's organizations now on the campus to urge civic and community interest among all women students.

POINT SYSTEM

It is useless to discuss the over-prominence of extra-curricula activities on a campus. Since they exist and will continue to do so, the only hope lies in some form of enforced limitation of participation. To meet this need the Point System was instigated and yet must be revised each year to meet new conditions. The double purpose of this system is to prevent one young woman from being completely overburdened, and to insist that others, doubtless quite as capable, be given opportunity to develop their abilities. That some results have been brought about by the Point System seems to be indicated by the much larger number of women prominent in the student body than were to be found some four years ago.

GENERAL SOCIAL CONDITIONS

It is to be regretted that a more nearly adequate system of chaperons and dance conditions has not as yet been worked out. This is partly due to the lack of halls in which dances may be given under University auspices and

partly to the fact that no particular organization has accepted the responsibility of dances and in consequence things occur which no one follows up and checks.

Much the same may be said of the dramatic organizations which include both men and women. There is no system by which all are subject to set standards with regard to rehearsal hours or out-of-town trips.

SPIRIT

While defects are being pointed out, the very admirable qualities of many of the student organizations should not pass unnoticed. There is a spirit of friendliness between organizations and student groups which is most highly to be commended. That undertaking which one group attempts has at once the interest and good will of the others. This is particularly to be noted in the Women's Athletic Association, Young Women's Christian Association, and the Student Council, although the same may be said of the Browning Dramatic Society and the Glee Club. This has beyond doubt been fostered and increased in very large measure by their life together in Pomerene Hall, and it is most sincerely to be hoped that as these organizations have now grown to the point of taxing to its utmost the capacity of Pomerene Hall, it, too, may soon grow and thus permit a continuance of this spirit of unity, interest, and harmony of attitude on the part of the women students at Ohio State.

SUMMARY

As a summary it may be said that the efforts of this office towards better housing for women have resulted in the securing of houses representing more refinement and more adequate understanding of student needs. The co-operative house is an experiment which has grown out of a study made by the Assistant Dean of Women and is intended to meet the need of the girl whose finances are not quite adequate to meet rooming house prices.

The unrelenting efforts and at times rather arbitrary means used to stress scholarship and study have resulted in a much keener interest in "final grades" and more recognized demand that all public officers or women representing the University in any way be above par in class work. The women's organizations on the campus continue to demand far too large a per cent of student time and energy. They continue to multiply in number and to increase their fields of activities, offering often very valuable training in managerial and administrative work, but are in constant danger of breaking down the too energetic and tested leaders and must be urged to try to use many girls instead of overworking a few.

To this report is added a report of the Summer School of 1923, during which time Miss Ernestine Cookson was Acting Dean of Women.

Both are most respectfully submitted.

REPORT ON SUMMER SCHOOL 1923

A very definite effort was made to have the summer students register in the office of the Dean of Women, so that there might be some check on the rooming houses where women students lived. Since a large proportion did not register, posters were placed in the various buildings calling attention to the registration requirement. As soon as possible the names of all women students were secured from the Bursar's office and they were sent personal notifications, which of course brought in a large number of registrants.

Whenever a woman registered who did not live in an approved house a personal interview was held with her. Ordinarily she was given special permission for Summer School, but great emphasis was placed on the fact that it was special permission and that it was decidedly contrary to the rules and regulations of the University. Sections of the rooming house bulletin were read. Most of these violators were school teachers and it was particularly wished that they should know of the regulations so that they might tell high school girls whom they knew were entering Ohio State University.

Whenever special permission was given the landlady came in and signed the lodging house agreement. In every case it was emphasized time and again that they were approved for the summer only.

In several instances girls were requested to move from houses where both men and women lived. In all cases where women students were requested to move the transfer was made. The Melamed sisters moved from Mrs. Socia's on West Tenth Avenue to Mrs. Scott's on Seventeenth Avenue. Two women moved from Mrs. Loveless's on Chittenden Avenue into an approved house, and one woman moved into St. Hilda's Hall.

Letters were sent to all householders requesting the names of students who were living with them and calling a meeting of representatives.

On the second Monday a meeting of representatives from the houses was held. Only about 50 per cent of the houses responded. The ones not represented were notified by telephone of a similar meeting on Tuesday and there finally was a fairly good representation. The rules were explained and sign-out slips given out. Since this group was used for publicity purposes as well as being self-government representatives, they met every Monday during the first term for just a few minutes, and every other Monday during the second term.

The sign-out slips were carefully checked over each week and memoranda made concerning them.

Some of the houses were extremely prompt in following the request, while others did not co-operate until the householders were reminded that part of their agreement included such co-operation.

Herewith is submitted a list of householders and their comparative co-operation. The first group are those who were up to date and complete in their respective reports:

Mrs. Courtright
Miss Barrett
Delta Zeta House (Mrs. McMillan)
Mrs. Kirk
Mrs. Scott
Mrs. Kessler
Oxley Hall
Mrs. Hanson
Mrs. Hedrick
Miss Lytle
Mrs. Hillyer

Mrs. Eleanor Smith
Mrs. Fitzgerald
Phi Mu House
Mrs. Baker
Mrs. McCoy (35 Sixteenth Avenue)
Miss Stevenson
Phi Omega Pi House (Mrs. Dillehay)
Mrs. Biddle
Mrs. Mesloh
Mrs. Wilgus

This group turned in slips but were not always prompt:

South Hall
Mrs. McCoy (37 Fourteenth Avenue)

Mrs. Lakin
Alpha Delta Pi

The group who reported after the second letter was sent out are:

Mrs. John Garrett—It was her fault that no reports came in, as she told the students it was unnecessary.

Mrs. Ota Smith—She also could not be annoyed until the letter called her attention to the requirement, then she sent in a letter stating that everything had been O.K. and started the slip system.

Pi Beta Phi—The chaperon, Miss Brown, had not understood the situation but her attitude was excellent and she was disturbed over the lack of compliance.

Mrs. Abernathy—Had all old school teachers and she could not get them to sign up.

Miss Sidwell at St. Hilda's Hall did her best to enforce University rules, but since the students never live under them in the winter time, those winter students who remained were a constant source of irritation, for they live by St. Hilda's Spirit, which is "personal freedom," and had no consideration for the older women. By all means old St. Hilda students who are working in town should not live there during the summer session.

Mrs. Hunter sent a representative after she received a second letter.

Mrs. Tudor had only four students—two graduates, one married woman, and one undergraduate—so she did not think a house president necessary.

Mrs. Minnich told her students it was unnecessary.

As far as self-government went the letters were ignored by:

Mrs. McDonald
Mrs. Cruickshank

Mrs. Boyle
Delta Delta Delta

The experiment was successful but the following recommendations seem fitting:

1. Householders should feel responsibility and not tell the students that the requirements of the Dean's office were unnecessary details. Perhaps a meeting of householders is necessary for explanatory purposes.
2. Students who are in school the other three quarters should not be allowed to be centers of dissension. Members of W. S. G. A. should be especially co-operative.
3. Every two weeks is often enough for reports.
4. Sorority houses should not be allowed to earn their summer rent from students unless their chaperon co-operates with the University and unless members of the sorority living in the house live up to W. S. G. A. rules.

REPORT ON ACTIVITIES

An effort was made to have social functions to interest students. Three dances similar to Council dances were given in Pomerene Hall. Two were well attended. From the standpoint of those who attended they were successful, however there was criticism from the stag element around school.

Afternoon parties for women were attempted, but people did not come, although there was sufficient publicity.

Only one trip was taken this summer. Eighty people (men and women) went to the Feeble-minded Institution.

One twilight concert was given in the lounge at which there was an extremely good crowd.

When Mr. Tobin became editor of The Lantern for the second six weeks he started on a crusade to have social affairs, something on the all-University scale. Finally, with the help of Mary Jones's Finance Committee, they had a party called The Lantern Prom. Four hundred people attended, but it was largely a Winter School group.

SUGGESTIONS ON SOCIAL AFFAIRS

1. The large party should come at the beginning of Summer School.
2. Dances in the Armory seem more popular than dances in Pomerene Hall. They have more of the air of the public dance and have less dignity, however.
3. More trips should be taken and these should be during the first term.
4. Twilight concerts should be given. Three at least should be attempted.

COMMENTS ON DEVELOPMENTS OF LODGING HOUSE SITUATION FOR FALL

Mrs. Martin is asking more for her rooms than is noted in the Bulletin. The students who lived at Mr. Martin's this last year report conditions very bad. There is a note on the matter for the Dean's consideration upon her return.

Mrs. Garrett said Miss Adam's O. K. was put on her rooms for \$25 a month per person. Miss Adam's bulletin and the card designated \$25 for the room or \$12.50 per person. Mrs. Garrett told two different students that the Dean had forced her to raise her rent. She was interviewed about the matter and denied it. She is renting her rooms at her own price on her own responsibility.

Mrs. Ota Smith returned the fees of two girls. The letters involved in the affair are on file.

Mrs. Wade had both men and women this summer and is not taking women this winter.

In the file are a number of individual requests to live with families who are friends or relatives.

SOCIAL AFFAIRS

The sign-out slips were a good check system on the social affairs, for women students would sign Sigma Phi Epsilon Dance for instance, then these could be referred to Miss Auch. When fraternities did not sign up they were sent a letter. One is in your file. Sigma Chi, Phi Gamma Delta, and Delta Upsilon were sent such letters. The Phi Gamma Deltas claimed the report on them was a mistake. The Delta Upsilons had other unregistered dances after they were notified to register. I would recommend that such oversight be forcibly called to the attention of the president of the fraternity.

Too large a number of our women students frequented the parks and Buckeye Lake

RUSHING RULES

There seems to be many misunderstandings concerning the rushing rules. To begin with, Lina Buckley, the President of Panhellenic, was late in getting the rules delivered and in many cases left them at the sorority house after all responsible parties had left, so at least six groups lacked rules or had an insufficient number. She was very delinquent about making up the deficiency.

The wording seems to be leading to much confusion. Many representatives will be coming in for their interpretation. Rushing rules are in the second drawer of the file.

SORORITY HOUSES

Many of the sororities have changed houses. In each case they have had mature advice. All reported changes. There is an up-to-date list in the file. The one matter that needs checking, however, is the danger of overcrowding the houses.

Respectfully submitted,

ELISABETH CONRAD, *Dean of Women.*

ANNUAL REPORT DEPARTMENT OF PHYSICAL EDUCATION

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report of the Department of Physical Education and its allied divisions for the year ending June 30, 1924.

Featured among other things by the inauguration of the professional courses in physical education, the school year 1923-1924 was a notable one in many ways for the Department of Physical Education. Inauguration of the professional courses for both men and women rounded out the general scheme of physical education and thereby brought to partial fruition the efforts of some years. As a result, the University now has an ideal program of physical education in actual operation, leaving only the need for adequate facilities to be met.

Comparison with the physical education systems of other universities leaves the distinct impression that no other is so comprehensive nor so compact as ours now is. All physical education work naturally belongs together and such a scheme of physical education as we now have in operation prevents lost motion and over-lapping. In such a system physical education is given its proper proportion and is hooked up with intramural athletics and with inter-collegiate athletics, but always with the emphasis on physical education.

In recent years physical education, particularly in the colleges, has come to include a much broader program than it did a decade ago. It is now recognized that the general educational program must take account of the entire and complete education of the youth of the land and not merely the three R's and their off-shoots. The larger vision of education takes account of all the waking hours of the child—and emphasizes quite as much what he does with his time outside of school hours as within that period. The outstanding function of physical education is to furnish a moral and intellectual stimulus for the whole life of the student. Judged by the progress of the last few years, that goal is being attained more and more each year.

The work of the Department of Physical Education and its allied divisions was conducted along seven general lines during the year covered in this report. The general organization of the work follows:

- I Required work
 - a. Men
 - b. Women
- II Elective work
 - a. Men
 - b. Women
- III Professional Courses
 - a. Men
 - b. Women
- IV Intramural Athletics
 - a. Men
 - b. Women
- V Intercollegiate Athletics
- VI Alumni Recorder
- VII News Bureau

Total enrollment in the men's and women's departments for the Autumn, Winter, and Spring Quarters was 9045, distributed as follows:

	Autumn	Winter	Spring
Men.....	1903	1782	1409
Women.....	1325	1329	1297
Total.....	3228	3111	2706

On the basis of the treasurer's report for the current year, 2.7 per cent of the University's total expenditure for instruction, or \$59,291.35, was for physical education. This item includes salaries, operating expenses, and equipment. Figured on the basis of a total enrollment of 9045 men and women during the Autumn, Winter, and Spring Quarters, the cost per student was \$6.55 for the year.

The attached reports of the respective heads of the men's and women's departments explain in detail the activities of their divisions. Since these reports deal so fully with the prescribed work for freshman men and women and for sophomore women, there is no necessity for dwelling further on them at this point save to suggest the obvious truth that they deserve thoughtful and intelligent consideration.

With the inauguration of the professional courses in physical education, the University is now equipped to offer work ranging from that for kindergartens to that of university caliber. During this first year, work only for freshmen and sophomores has been offered, the aim being to increase the scope of the work as the development of the program requires. Under this scheme it will be 1926 before the full four-year course is available.

One of the pioneers in intramural athletics, the University has continued to maintain a place in the forefront if not actually in the van in this field. During the current year, as the accompanying detailed report of the Director of Intramural Athletics shows, the total participation in this mass athletics by men students reached the figure of 14,827. When it is remembered that all of this participation is purely voluntary, the full significance of the place that intramural athletics holds in the present scheme of things is apparent. Such a showing fully justified intramural athletics as a part of the University program and suggests again that it should have adequate support by the University itself.

Intercollegiate athletics, embracing 10 lines of competition, have been conducted with credit to the University. From the standpoint of participation, from the stimulating contacts made with other institutions in these various lines of athletics, from the point of view of finances and from the general results achieved, the year can only be considered as a successful one. It is significant that, including candidates for the freshman football, cross country, track, basketball, and baseball teams, approximately 1200 men took part in what are considered Varsity sports. Such a showing effectively gives the lie to the ancient belief that Varsity athletics are for the few.

The year was notable in intercollegiate athletics because of the inauguration of the Ohio Relays in April in the Ohio Stadium. In this festival some four score schools, colleges, and universities participated. University teams during the year won the Western Conference cross country championship, tied for the Conference baseball championship, tied for second place in basketball, and made the best showing in track since the admission of Ohio State to the Conference. The University also was represented by four men from its cur-

rent athletic teams in the Olympic Games as members of the American team, a showing believed to have been unequalled by any other Western Conference member.

The attached report of the treasurer of the Athletic Association shows a net profit for the year from athletics of \$173,420.97. It is significant, however, that only football and basketball were profitable in a financial sense. In spite of the fact that every available dollar was applied to the reduction of the Stadium indebtedness, the Association closed the year with notes aggregating \$482,000 outstanding. Occasional critics lose sight of the fact that although the Stadium plant is virtually complete, and although all the receipts of the past four years have been applied to the Stadium, the Athletic Board is still carrying a tremendous burden. The total investment in the Stadium plant, which has not cost the state or the University a penny, is approximately \$1,700,000.

Attention is again called to the non-athletic work carried on by the department for the good of the entire University at the expense of intercollegiate athletics. In this connection the time of the various members of the coaching staff on behalf of the formal work in physical education constitutes a considerable item. The work of the Alumni Recorder and the University News Bureau also falls in this classification. These are functions to which before very long the University should give its material as well as its moral support.

The urgent needs in physical education will only be recapitulated at this point, since they are touched in detail elsewhere. They may be summarized as follows:

New Men's Gymnasium
Addition to Pomerene Hall
Field House for Women

The need for these additional facilities has long been apparent, particularly in the case of the men's gymnasium. In all three instances, the situation has reached a stage verging on the critical. The men's gymnasium, used probably more hours per week than any other building on the campus, is now serving 10 times the number of students it was designed to accommodate. In like manner, Pomerene Hall has been crowded to capacity since it was opened several years ago. If the work of the department is to meet even normal demands upon it, additional facilities must be provided at once.

Looking back over this brief summary of the work of the department, it is not too much to say that no other educational department has the complications, the amount of detail and the number of problems that fall to the lot of physical education. The time is not far distant when physical education will be given adequate recognition on every hand for the part it is even now playing in the world of education.

Detailed reports covering the various sub-divisions follow:

PHYSICAL EDUCATION
Men's Division 1923-1924
(DR. J. H. NICHOLS, Director)

PHYSICAL EXAMINATIONS

These examinations are now required of all students entering the University for the first time and are completed before any type of physical education, athletic or military work is undertaken. This year some 2500 men have been examined. The exact value of these examinations to the student is impossible to estimate. We do know, however, that this year more than 300 men were referred to specialists for eye, ear, nose, throat, and teeth conditions. In many of these cases the individual had been working under a severe physical handicap which would have considerably lessened his efficiency for University work.

Each year we are attempting to increase the effectiveness and value of these examinations to the students. Two factors, however, of fundamental importance, must constantly be kept in mind. The first is the early completion of all examinations, preferably before any University work whatever is undertaken. This year we were able to complete all examinations two days after the opening of school. This was made possible by the scheduling of students of Columbus and Franklin County, Thursday, Friday, and Saturday preceding the opening of school. Michigan and Minnesota are both completing all physical examinations before the opening of school, which is the wise and logical procedure. It would necessitate first year students arriving a few days earlier, which would be a decided advantage to most of them in getting established and arranging for their University work.

The second factor is thoroughness, which cannot be sacrificed for the sake of speed. This means a large and efficient corps of medical men and clerical assistants. We have been able to secure the same specialists for a number of years and this has made for both speed and thoroughness. This year, with the assistance of Dr. Walter E. Duffee, we have been able greatly to increase the value of the examinations to the students by following up all abnormal conditions with personal conferences immediately after the completion of the examination. This has made it possible to examine more thoroughly these cases and also to advise the students in regard to treatment and correction, as well as assigning special cases in corrective and remedial classes.

Next year we are planning monthly conferences with all men who, because of physical handicaps, are taking modified activities. In the near future we should provide for a second physical examination some time during the student's course. This might well come during the Spring Quarter of the senior year. Many schools repeat the examination yearly and this is the ideal procedure. However, I do not believe the additional benefit would justify the immense amount of the department's time that such a procedure would require.

It is possibly of some interest that during the past eight years there has not been a single serious injury, either in connection with physical education or athletic activities, and during this time some 18,000 men have engaged in these activities.

HYGIENE

This course has been given for the past three years and is organized and handled about as effectively as is possible with a one-hour, one-quarter course. The course, as now given, does not allow sufficient time even to touch the high spots. The course should be given as a three-hour course for one quarter.

The importance of this material in helping to mold and build proper attitudes and ideals towards living, in my opinion, warrants such an increase. Six sections are now offered each quarter and are under the supervision of Drs. Castleman, Wilce, Duffee, and Nichols.

PHYSICAL ACTIVITY COURSES

This is the second year that the department permitted all physically sound students to elect their activities in physical education. The only restriction made was that a student must elect at least two outdoor activities, preferably in the fall and spring, and that he must elect at least two different types of activities.

This program has met with a wonderful response from the students. They are enthusiastic and keenly interested in the activity they elect. The result is that hundreds of young men are forming an interest and skill in some sport which they can carry on during the sophomore, junior, and seniors years and then into later life. We are developing habits of exercise and interests in sports instead of forming the aversion which resulted from a program consisting chiefly of formal gymnastics. At the beginning of each quarter many upper classmen are returning and requesting the privilege of enrolling in these activities. This is a pretty definite indication of the value of this program.

While greatly increasing the effectiveness of our work this plan has enormously increased the work of the department. Under the old system it was possible for one instructor to handle 150 men in mass calisthenics. It is now necessary to have at least four instructors at each hour, handling from 30 to 40 men in such activities as boxing, wrestling, fencing, track, basketball, tennis, etc. With such a program the administrative problems are greatly increased. Three years ago we were handling our classes in 15 sections per week. Now we have 94 sections.

The success of this type of a program depends, first, on a diversified group of activities at all hours of the day; second, on a large and well trained staff of instructors; and, third, on adequate field and gymnasium facilities. In our present cramped and hopelessly inadequate quarters, we are greatly handicapped as we have practically no special exercise rooms where these various groups may meet. With the construction of the new Education Building on Ohio Field, the building of a new gymnasium adjacent to the recreation field and Stadium becomes an absolute necessity.

PERSONNEL

In spite of the tremendous increase in numbers during the past six years and the change in the character of the program, the staff, for the required courses, has only been increased by one student assistant since 1916. At that time there were four instructors, one secretary, and one student assistant. Today we have four instructors, one secretary, and two student assistants. It is conservative to say that in this period the work has more than trebled. The increase in enrollment from 800 in 1916 to 1900 in 1923, the change to the Four-quarter Plan, the addition of the course in hygiene, the requirement of a physical examination of every student entering the University, and the addition of a major course in physical education have been the more important factors contributing to the increase in the department's work. The average teaching load now being carried by the full-time instructors is 25 hours per week.

The carrying on of the program has been possible only through part-time assistance of men in the Athletic Department. This assistance has increased steadily so that practically every man in the Athletic Department is giving some time to the promotion of the general program of physical education. While this assistance has made it possible to carry on, it does not take the place of men whose first and major responsibility is in connection with the work for the whole student body. During the heaviest quarter of the year—the fall—most of these men are not available because of other duties. It is also natural that their interest in the general program is somewhat secondary, since their success is judged largely on the basis of successful athletic teams and their salaries are paid by the Athletic Department.

The Department of Physical Education needs several high grade men who expect to give their major effort to the required and professional courses, including also the physical examinations and hygiene instruction and general administrative assistance at the rush periods each quarter. Two high grade men are needed at once. One should be qualified to handle and supervise the corrective work, assist in various other phases of the general program, possibly handle the gymnastic team and teach corrective gymnastics and advanced courses in the professional major course. The other should be qualified to handle various elective activities and assist in professional courses.

Mr. B. F. Mooney of Springfield College filled the vacancy in our staff this year. He has entered into the work with great enthusiasm and energy and has been a splendid addition to the staff. His work has been mainly with the boxing, wrestling, and corrective groups. He also coached the freshman wrestling team with splendid success. This year we are losing Mr. Glenn H. Alexander, who has been with the department for four years. His place will be filled by Mr. L. G. Staley of Springfield College, who comes to the department recommended as one of the most promising men who ever was graduated from the College.

GYMNASIUM AIDES AND VARSITY "A" ASSOCIATION

This group has been steadily increasing in number and quality ever since Mr. Cobb took over this work. With the large number of elective sections, the demand for student assistance is greater than ever, and this aid work should soon attract quite a large number of those majoring in physical education. During the past year there has been an active membership of 60 with a large number of sophomores and seniors in the list.

Feeling that the more faithful of these aides deserved some special recognition or award and that such tangible evidence of rewarded service would attract more valuable members, the Physical Education Department and the organization have adopted two awards for faithful service—a monogrammed sweater and a key—in addition to the present annual certificates. The Varsity "A" monogrammed sweater is awarded for three years of consecutive service and certificate award. The Varsity "A" gold key is awarded to a member for four year's service providing he has earned four certificates. The gymnasium aides are more than justifying their existence as an organization allied with the Department of Physical Education, and their work this year in connection with the elective program has been of inestimable value.

ADMINISTRATION

The more important factors that have resulted in an immense increase in administrative and clerical are the following: Increased enrollment; change to Four-quarter Plan, necessitating handling all records, enrollment cards, grade cards, locker assignments, towel checks, etc., four times a year instead of two; addition of hygiene course, involving not only instruction, but records, rolls, grading of quizzes, note books, examination papers, etc.; the requirement of a physical examination for all entering students; the change in the type of program from mass sections in calisthenics and apparatus to a diversified elective sport program; increasing the number of sections from 15 to 94 and adding more than six times as many teach-

ing hours to the department's load; and, finally, the addition of the four-year major in physical education for training teachers, which involves a heavy teaching load, a large amount of administrative and advisory work and a rapidly increasing amount of correspondence.

EQUIPMENT AND FACILITIES

The great and outstanding need of the department from a material standpoint is a new men's gymnasium located adjacent to the new recreation field and Stadium, so that it will be possible to utilize all the outdoor facilities that form the major portion of the program in the autumn and spring.

The present structure was built 27 years ago to accommodate a student body, including women, of 960. We are now handling in the required courses and intramural activities some 6000 men in the gymnasium. More than 1500 men use the gymnasium daily. Three thousand lockers are needed and could be rented if we had them. By terrific congestion in the locker room and the use of wire baskets, we are able to accommodate 1800. We expect to eliminate the wire baskets this year, as they are extremely unsatisfactory.

Under present conditions, the department is laboring under as insurmountable handicap. The present quarters provide practically no space for our special elective activities. We need rooms for handball, squash, racquet, boxing, wrestling, fencing, and corrective and remedial work. Intramural athletics have increased enormously in the last ten years. Hundreds of upper classmen who are eager to secure lockers and use the facilities of the gymnasium and athletic fields in voluntary activities are excluded because of lack of accommodations. An adequate gymnasium and field space are just as essential to our work as laboratory facilities are to chemistry or any other science. The use of a portion of Ohio Field for new buildings will further handicap the work under the present conditions. I am satisfied that the slightest investigation into present conditions will convince the President and Board of Trustees of the immediate need of such a building adjacent to our new recreation field and Stadium.

DEPARTMENT NEEDS

1 The building of a new gymnasium to house the required physical education program, intramural activities, professional work in physical education, voluntary student physical activities, Faculty physical facilities and offices for the entire Men's Department staff, including rooms for medical and physical examinations, and to be located adjacent to the recreation field and Stadium.

2. Addition of two high grade men to the staff.

3. Field facilities.

4. Swimming pool.

PHYSICAL EXAMINATIONS

Entering Students:

Autumn Quarter.....	1905	
Winter Quarter.....	82	
Spring Quarter.....	46	
	<hr/>	2033

Examinations for Intercollegiate Athletic Competition:

Football	93	
Basketball	15	
Track	125	
Baseball	0	
Wrestling	30	
	<hr/>	263

Examinations for Military Exemptions:

Autumn Quarter.....	34	
Winter Quarter.....	16	
Spring Quarter.....	8	
	<hr/>	58

Special Examinations:

Civil Service.....	10	
Food Handlers.....	50	
War Veterans' Insurance.....	12	
	<hr/>	72

Grand total.....		<hr/>	2426
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THE OHIO STATE UNIVERSITY

OFFICE CONFERENCES

Health and Medical Advice
 Emergency Medical and Surgical Treatments
 Corrective and Remedial Work

Average daily number of office calls for advice or emergency treatment.....	15
Total number given emergency treatment during year.....	1900
Number of students referred to physicians or clinics for special treatment....	1284
Eyes	243
Teeth	521
Nose and Throat.....	122
Vaccination	398
Students under medical supervision for corrective and remedial exercise.....	86
Fall Quarter.....	32
Winter Quarter.....	29
Spring Quarter.....	25

DEPARTMENT REQUIRED COURSES

Hygiene 400

	(Grades)			
	Autumn	Winter	Spring	
Passing	514	500	386	
Failing	69	36	52	
Deferred	0	0	2	
Incomplete	11	7	7	
Withdrew or dismissed.....	34	18	44	
	628	561	491	

Hygiene 400

(Sections and Enrollment)

	Autumn	Winter	Spring	
Sections	5	5	5	
Students	514	500	491	
Total for the year.....				1505

Physical Education 401, 402, 403

	Autumn	Winter	Spring	
Passing	1643	1572	1221	
Failing	97	67	64	
Deferred	12	14	3	
Incomplete	43	53	32	
Permanently excused	1	4	..	
Withdrew or dismissed, etc....	107	72	89	
	1903	1782	1409	

Physical Education

(Sections and Enrollment)

Number of Sections	Autumn	Winter	Spring	
Elective	59	53	88	
General	14	16	5	
Corrective	2	2	2	
	75	71	95	
Number of students.....	1903	1782	1409	
Total enrollment for year.....				5094

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ELECTIVE ACTIVITIES OFFERED AND NUMBERS ENROLLED

Autumn Quarter

Boxing	333
Tennis	262
Modified football	222
Track and cross country.....	233
Soccer	69
Freshman football	62
Wrestling	52
Speed ball	26
Tumbling	16
Fencing	10
General	466
Corrective	32

Total.....1783

Winter Quarter

Boxing	350
Basketball	254
Wrestling	235
Track	146
Fencing	40
Tumbling	29
Jiu Jitsu	25
General	584
Corrective	29

Total.....1692

Spring Quarter

Tennis	480
Baseball	465
Track	154
Spring football	70
Boxing	41
Volley ball	29
Fencing	21
Wrestling	19
Basketball	17
General	88
Corrective	25

Total.....1409

Department Staff

Full-time instructors	2
Secretary	1
Student assistants	3
Part-time assistants from Athletic Department.....	3

Teaching Load

Full-time instructors	21 hours
Student assistants	13 hours

Gymnasium Aides (Varsity "A" Association)

Number of active members:	
Autumn quarter	62
Winter quarter	64
Spring quarter	57
Number of instruction periods.....	1 hour per week
Number of classes assisted per week by aides.....	2
Number of certificates of merit issued.....	38

Utilization of Plant and Equipment

Average daily attendance men in required courses.....	750
Average daily attendance in voluntary activities.....	200
Average daily attendance in intramural activities.....	250
Average daily number using gymnasium (total).....	1200

Towel and Shower Facilities

Average daily number of towels issued.....	750
Average daily number using showers.....	1050

Locker Facilities

Number of lockers rented:

Autumn quarter	1907
Winter quarter	1860
Spring quarter	1310

Checking Service

Average daily number using service.....	200
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SUMMARY OF STUDY ON HEART CASES

Total number of heart lesions.....	18
Total number who participated in athletics in high school with heart lesions..	10
Total number who participated in interscholastic athletics.....	7
Total number who participated in—	
Interscholastic football	3
Interscholastic football.....	6
Interscholastic track.....	4

These results indicate very definitely the need for medical examinations for high school students. The number of years which this participation will take off from these boys' lives cannot be estimated, but it would be considerable.

PHYSICAL EDUCATION

Women's Division 1923-1924

(MISS LYDIA CLARK, Director)

The work of the Department of Physical Education for Women for the year 1923-1924 has been uninterrupted and constructive plans for furthering the health and recreation of the women students have been pursued. The addition of a full-time Medical Adviser has greatly enhanced the value of the work, and made possible a more careful system of follow-up work.

REQUIRED WORK FOR FRESHMEN AND SOPHOMORES

	Autumn	Winter	Spring
Enrollment—Freshmen	745	742	694
	Autumn	Winter	Spring
Enrollment—Sophmores	580	587	603

With the increase in the staff, it has been possible to offer a wider selection of activities, and thus adapt the work to the capacities and interests of the students, thereby giving opportunity for the frail as well as the strong student to secure the needed exercise and recreation. The corrective work has been under the direction of Miss Esther Gilman, who has been able to secure good results, despite inadequate equipment.

The dancing has been under the direction of Miss Margaret Cheney, who has made a special study of this activity. A good beginning has been made and interest stimulated among the students.

INTRAMURAL ACTIVITIES

This work has been under the direction of Miss Gladys Palmer, who has been able to effect a most gratifying growth and development. In the winter of 1922, a basketball tournament was opened to sorority women. Sixteen teams entered and approximately 200 women participated in the sport. In the spring of 1922, tennis and baseball were offered to sororities, dormitories, clubs, and independents, and approximately 350 women responded. More activities have been added this year and the enrollment doubled. In the winter, 33 basketball teams were signed up and 350 women took part. In the spring, 600 women elected the intramural activities. Interclass teams have been under the direction of Miss Sumption and Miss Hersey, and greater attention has been placed upon development of skill.

PROFESSIONAL COURSE

This year marks the beginning of the professional course in physical education. The enrollment of 21 freshmen and 12 sophomores is a good start. Miss Katherine Hersey was added to the staff because of her ability in teaching the teachers' training courses. There is a great need in Ohio for teachers of physical education who have been well grounded in the public school point of view, and it is the aim of this course to supply teachers with an understanding of children. The practical courses for the majors have been scheduled at the noon hour because of lack of space. Additional room should be provided in order that the work may be con-

ducted under more hygienic conditions, and so that we may provide for the oncoming junior and senior majors.

WOMEN'S ATHLETIC ASSOCIATION

This organization has undergone a series of changes in the past two years. Under the guidance of Miss Gladys Palmer, who has acted as adviser, the students have assumed more responsibility toward organization of their class sports. Widespread interest has been manifested through meetings and banquets.

At the intramural banquet in the winter, 300 women attended and were offered a means of mingling in democratic fashion. This we believe to be of educational value and a distinct means of creating good fellowship among the women students. The organization of such meetings is also of value in developing leadership and co-operation.

RECOMMENDATIONS

During the winter, the gymnasium 102' x 59', and the corrective room, 25' x 19', were inadequate for proper division of large groups of students. The elective system of work was hampered and proper adaptation of the work to the physical capacity of the student was difficult. The proposed completion of Pomerene Hall will remedy this situation and give opportunity for the department to continue to make further progress.

The construction of an athletic field for women would also help materially. At present we are using the field behind Oxley Hall, which is in close proximity to the space used by the men for their intramural activities. It is desirable that we have a separate athletic field for the women which is less public and where the work can be carried on without interruption.

Members of the instructional staff also engaged in other activities and gave their services in various non-University connections. Among these were various institutes such as: Girl Scout work, the annual Educational Conference, intramural activities at King Avenue M. E. Church, etc.

The past two years have been interesting as well as stimulating to the members of this department, and we wish to express our appreciation to the President, the Director, and our colleagues for their courtesy and helpfulness.

REPORT OF THE MEDICAL EXAMINER FOR WOMEN

(DR. GERTRUDE FLINT JONES)

It is as important for a student to know what her health resources are as it is for her to know her bank account, in order that she may be intelligent in the use of her energy. It is for this reason the emphasis was put on careful physical examinations this year in an attempt to curtail the possibility of so-called "break downs," both through the years in college and thereafter. The year's work has been merely a beginning.

So far the information regarding the physical condition of the student has been taken into consideration by the University authorities chiefly in assigning the individual to a certain type of exercise. Some more satisfactory plan of co-operation is to be desired, whereby the health of the student will be taken into account in planning the academic program, particularly with those who are carrying outside work.

FALL MEDICAL EXAMINATION

Fourteen hundred and ninety-six freshmen, sophomores, and upperclassmen were examined during the first 10 days of the Fall Quarter. The upperclassmen examined either were entering the Ohio State University for the first time or were those who had not contemplated the required work in physical education. Drs. Crane, Welch, Offerman, Gorrel, Johnson, Norton, and Wright assisted with the examinations. Students showing any significant deviation from the normal were given reappointments for consultation with the Medical Adviser at a later date. Of the 1496, 172 were referred back for consultation. Of these, the individuals needing treatment or more elaborate diagnostic tests were referred to their family doctors or physicians well qualified to care for them.

Each student at the end of her examination was grouped as follows:

Physical Criteria	Physical Education Group	No. in Each Group
No physical defects or minor physical defects	All sports allowed.....	1311
Major physical defects not serious enough to warrant no activity	Restricted activity allowed (i. e., archery, volley ball, tennis, dancing)	133
Major defects definitely impairing efficiency	Supervised rest	35
Excused		17

THE OHIO STATE UNIVERSITY

REST PERIODS

The wicker room in Pomerene Hall was given over through certain hours of the day to students taking regular rest. The conditions for which rest were prescribed were:

Condition	Number
Extreme nervousness	4
Heart conditions	3
Mildly toxic goitre	5
Nephritis	2
Post influenza	3
Post jaundice	1
Recent post operative cases.....	14
Suspected incipient pulmonary tuberculosis.....	3
Total.....	35

At the end of the Fall Quarter, 21 of these 35 were in condition to go into either the restricted or all sports groups.

EXCUSED FROM PHYSICAL EDUCATION

The group of excused, 17 in number, was comprised of those who would not definitely profit by being required to walk over to Pomerene Hall and lie still for one hour; e.g., such conditions as dislocated cartilage of the knee, broken rib, arthritis, pronounced heart lesion, etc.

CONDITIONS FOUND

For results of examinations, see appended lists.

HEART EXAMINATIONS FOR INTRAMURAL HOCKEY

All women playing intramural hockey who had not had a physical examination at the beginning of the Fall Quarter were required to have heart examinations. Two out of approximately 50 were rejected.

UNDERWEIGHT AND OVERWEIGHT PERCENTAGES

Underweight and overweight percentages were worked out for the freshmen women only.

Total number examined..... 790

Underweights:

10% to 15% underweight.....	127	16.1%
15% or more underweight.....	96	12.1%
Total.....	223	28.2%

Students 15% or more underweight received special attention. (See nutrition class under Winter Quarter report.)

Overweights:

15% to 20% overweight.....	20	2.4%
20% to 30% overweight.....	31	4.0%
30% or more overweight.....	21	2.6%

Students 30% or more overweight received special attention. (See overweight clinic under miscellaneous.)

OFFICE CALLS

Regular office hours were held daily with the exception of Saturday and Sunday throughout the quarter.

Number coming in for advice.....	160
Number referred back from medical examinations.....	172
Total number of calls.....	332

For summary of conditions, see appended list.

ANNUAL REPORT

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REPORT OF WINTER AND SPRING QUARTERS

Medical examinations Winter and Spring Quarters:

Number of entering women examined:

Winter quarter	60
Spring quarter	100
Total	160

Part of the first week of each quarter was devoted to the examinations. The assistance of Dr. Transeau was obtained for two half days. It was considered advisable for the sake of assigning the individuals to the most beneficial type of activity to divide the restricted group into two groups—*Restricted and Special Restricted*—the latter group being comprised of those with the health of whom the department was particularly concerned, as it was also with those assigned to rest periods. The activity, then, of the special restricted group was confined in the winter to light gymnastics, restricted dancing, and corrective exercises; in the spring, archery or horseshoe pitching were prescribed for this group, as well as for a large number of those who had been on rest through the winter, as these sports admit of the participation of any one who is able to come to classes at all.

The 160 entering students for the Winter and Spring Quarters were grouped as below:

All sports	119
Restricted sports	28
Special restricted sports	5
Corrective exercise	3
Rest	2
Excused	2
Advised immediate withdrawal because of active tuberculosis.....	1

RECHECKS AND REST PERIODS

Twenty-five of the 160 were referred back for consultation and more complete diagnosis.

Through the Winter Quarter, 31 were assigned to supervised rest periods for the following conditions:

Anemia, hypotension and debility	6
Appendicitis (chronic)	2
Cardiac	2
Goitre (mildly toxic)	3
Menstrual disorders and debility	9
Nephritis	1
Nervous instability	3
Question pulmonary lesion	2
Other conditions	3

NUTRITION CLASS

Through the splendid co-operation of the Home Economics Department, it was possible to give special attention to the freshmen women who were decidedly undernourished in the Winter Quarter. The group selected consisted of 52 freshmen, 15% or more underweight and having no physical defect which would prevent a gain in weight. Instead of selecting two hours of physical education work in the gymnasium or on the field, these individuals were persuaded to divide the two hours thus: One hour a week for instruction in food values and choice of foods, given by Miss McKay in the Home Economics Department, and one hour a week instruction in special exercises devised to stimulate bodily processes, given by Miss Gilman in the Department of Physical Education. Although the results were not as satisfactory as they might have been, they were encouraging; 28 gained in weight, 14 remained the same, 7 lost. It is to be hoped that by giving this Nutrition Class in the Fall Quarter next year instead of the Winter, we may get better results. When such an authority as Dr. M. J. Rosenau says, "The most important single factor in health is food," it seems justifiable to give nutrition classes a fair trial.

HEART EXAMINATIONS FOR INTRAMURAL BASKETBALL

All women playing on intramural basketball teams were required to have heart examinations before being allowed on the floor.

THE OHIO STATE UNIVERSITY

Number examined	294
Of these	13 were rejected
Because of organic heart lesion.....	2
Because of functional heart deficiency.....	5
Because of heart symptoms with goitre.....	2
Because of excessive underweight.....	4

OFFICE CALLS

Daily office hours were held with the exception of Saturdays and Sundays.

	Winter	Spring
Number of calls	200	237
Heart examinations	294	
	—	
	494	

For summary of conditions, see appended lists.

MISCELLANEOUS

THYROID CLINIC

Dr. Ramsey kindly gave his time in the Winter Quarter to come to Pomerene Hall and examine 21 goitre cases and advise the type of treatment. He suggested a study regarding the effect of iodine on a certain type of goitre. This work was begun and the results were interesting, but far too small a series has been investigated to give the results any significance. This study will probably be continued next year.

OVERWEIGHT CLINIC

Freshman women more than 30% overweight, 21 in number, were called in for consultation in an attempt to determine whether the extreme condition was due to glandular dystrophie or simple overeating with too little exercise. Those diagnosed as glandular dystrophes were referred to outside doctors for treatment. The others were advised as to diet and exercise.

ADVISED TO DROP FROM UNIVERSITY BECAUSE OF PHYSICAL CONDITION

Diagnosis	Number	Number in whom diagnosis confirmed after drop from University
Minimal tuberculosis	3	2
Cardiac insufficiency with decompensation	2	2
Toxic goitre	1	1
Dementia precox	1	No report

NEW FORMS

The Psychology Department and the Men's and Women's Divisions of Physical Education, represented by Dr. Toops, Dr. Nichols, and the undersigned, respectively, collaborated in compiling a blank combining the Health Statement and appointments for physical examinations and intelligence tests. This blank is far more efficient than those used before, both from the standpoint of checking and from the standpoint of an adequate Health Statement, which allows of more intelligent and scientific sizing up of the individual. A new medical examination card was also compiled. The record forms for both divisions are as nearly similar as possible and are itemized numerically. This will facilitate collecting and comparing statistics in the two departments as well as providing information of value to the University.

HYGIENE

The desideratum of the required course in freshman hygiene is to establish a health ideal for each individual and outline simple ways of attaining it through daily regard for the underlying principles. The courses given this year have briefly outlined health as a positive possession—the hygiene of each system in the light of the physiology of each and the prevention of disease.

Quarter	Number enrolled
Fall	416
Winter	276
Spring	149
	—
Total.....	841

AIM

That women graduating from Ohio State University be physically superior, as well as mentally equipped.

To accomplish this end:

1. Through medical physical examinations.

a. Prompt correction of the correctable defects found in the course of examination. This situation is not adequately handled by our present system of referring the student off the campus. The student does not go to a specialist seven times out of 10 because of lack of funds, lack of time, or inertia. With the enlargement of the Health Service to embrace specialists, whose services would be free to the student after paying his minimum health fee, the student would not be handicapped by finances and the inertia would be overcome by his wanting to get a return on his health fee.

b. Adjusting the schedules of those physically deficient through the co-operation of the student, the Dean of his college, and the Medical Adviser.

2. Health Education.

The Hygiene course should give:

a. Instruction in the principles underlying health.

b. A real desire for the maximum of health.

c. The conception of health as an individual responsibility. . .

A Health Standard Score Blank was compiled in May, which will aid in giving the student a conception of her health possibilities and short-comings. If these can be used to score the different living groups, it may serve to stimulate interest.

3. Accurate diagnosis of pathological conditions and the most thorough scientific treatment of such conditions.

The following addenda to the present equipment are necessary to insure the above:

Additional health service facilities.

Consulting specialists.

X-ray department.

Laboratory.

Infirmary for students where both contagious and non-contagious bed patients would be cared for.

CONDITIONS

FALL MEDICAL EXAMINATION OHIO STATE UNIVERSITY

(All entering women students and those in second year)

Total number examined.....	1496
Number without any defects.....	142— 9.4%
Number with major defects.....	183—12.0%
Those on restricted physical education work.....	133—10.2%
Rest or no physical education.....	52— 1.8%

Major Defects

Eyes—Anopsia	1
Thyroid (enlargement with disturbance sympathetic system).....	31
Heart Lesions	43
Congenital Lesion	1
Mitral disease compensated.....	8
Tachycardia (associated with large thyroid).....	23
Cardiac insufficiency (either nervous or myocardial in origin) ..	18
Pulmonary Lesions.....	6
Incipient tuberculosis.....	3
Recent empyema.....	1
Asthma	1
Unresolved pneumonia	1
Appendicitis (chronic).....	7
Hernias	3
Nephritis	6
Disability from infantile paralysis.....	2
Dysmenorrhea and menorrhagia.....	28

General Conditions requiring restricted or no work—

Anemia—with hypotension	11
Post operative appendectomies.....	5
Pelvis operation	2
Thyroidectomies	3
Underweight (over 20%).....	67

Minor Defects

Eyes—Visual defects corrected	239
Uncorrected with glasses.....	15
Conjunctivitis	26
Blepharitis	10
Ears—Impaired hearing.....	12
Chronic otitis media.....	2
Impacted cerumen.....	3
Nose—Nasal space poor.....	36
Tonsils—Hypertrophied	140
Thyroid—Enlarged slightly or markedly.....	864
With disturbance sympathetic system.....	31
Thyroidectomies	11
Skin—Acne	180
Eczema	1
Psoriasis	2
Breasts—Surgically removed.....	2
Heart—Functional murmurs.....	14
Lungs—Bronchitis	4
Abdomen—Appendectomies—old	18
Extremities—Varicose veins	1

*Postural Defects (Slight and Marked)..... 1196**Miscellaneous*

Adenopathy—submaxillary	2
Adhesions post operative scar.....	1
Albuminurea	36
Amenorrhea	1
Anemia	18
Arthritis	2
Bursitis—deltoid	1
Cardiac Arrhythmias—extra systole.....	3
Furunculosis	2
Gastro intestinal disorders.....	2
Hordeolum	1
Hypertension	9
Leucorrhea	4
Menstruation—irregular or painful.....	48
Myxedema	1
Nervous instability (marked).....	9
Neuralgia—shoulder	1
Nutrition—10% or more underweight.....	396
Otitis Media.....	2
Pituitary Dystrophy.....	1
Sinusitis	1
Verruca—plantar surface feet.....	1

OFFICE CALLS

COMING COMPLAINTS AND CONDITIONS

Fall Quarter		Winter Quarter		Spring Quarter	
Acne	2	Advised to drop		Abscessed tooth	1
Adenop	1	college	4	Acne	9
Advise drop		courses	6	Activity advice	2
from college	4	Regarding activity.....	13	Adenop.	1
from course.....	2	Anemia	1	Advised drop out college..	1

Fall Quarter		Winter Quarter		Spring Quarter	
Append	6	Arthritis	2	Anemia	2
Arthritis	2	Asthma	1	Arthritis	4
Bachaches	1	Abscessed tooth.....	1	Boils	6
Blepharitis	1	Coryza	6	Constipation	4
Boils	1	Constipation	2	Debility	1
Bronchitis	4	Debility	2	Digest, dist, nausea.....	6
Cardiac	5	Dog bite.....	1	Bachaches	3
Conjunct.	2	Excuses		Excuses request or drop..	
Coryza	3	Eye refract.....	1	F. B. Eye.....	2
Debility	5	Conj	1	Fractured rib.....	1
Digest, dist.....	3	Glandular dys.....	1	Headaches	3
Exams	6	Health cert.		Health statement position.	4
Excuses	3	swimming	3	Swimming pools.....	8
Hockey	4	positions	8	Exam	8
Headaches	1	exam	6	Heart	7
Hernia	1	Heart	6	Heart Ex. track.....	2
Infection	1	Hygiene	6	Hernia	1
Infection—toe	2	Injury to finger.....	1	Hygiene	7
Injury to back	2	Injury to hip.....	1	Infect, on foot.....	1
Injury to finger.....	2	Injury to knee.....	5	Injury to elbow.....	1
Injury to knee.....	3	Injury to nose.....	1	Injury to hand.....	2
Injury to shoulder.....	1	Insomnia	1	Injury to knee.....	7
Injury to toe.....	1	Menses		Injury to toe	1
Jaundice	1	profuse or frequent....	8	Laryngitis	1
Leucorrhea	2	delayed	4	Lymphangitis	1
Miscellaneous	4	pain	4	Menses	2
Menses		Miscellaneous	12	delayed	3
painful	5	Nephritis	1	frequent	9
frequent or profuse...	7	Nervousness	5	painful	10
irregular	1	Neuralgia	1	irregular	2
Myositis	1	Overweight	1	Miscellaneous	15
Nasal path.....	1	Painful feet.....	2	Muscle strain	
Nephritis	2	Pain right side.....	4	back	1
Nervousness	2	Pleurisy	1	leg	1
Neuralgia	1	Post op.....	1	side	3
Otitis media	1	Pulmonary	2	Nephritis	2
Painful feet	4	Bronch.	1	Nervousness	3
Post influenza debility...	3	Recheck	23	Nose bleed	1
Post. op.....	8	Sprained ankle.....	11	Pain right side.....	4
Pulmonary	3	Sprained back.....	4	Append.	1
Recheck	22	Sprained finger.....	1	Pharyngitis	6
Rheumatic fever	1	Sprained wrist	4	Pleurisy	2
Semilunar cart.....	1	Thyroid	11	Pulmonary	4
Sprained finger	3	Tonsillitis	1	Recheck	19
Sprained wrist.....	1	Underweight	1	Skin dermatitis.....	1
Stomatitis	1	Urinalysis	1	Sprained ankle.....	4
Thyroid	5	Skin—acne	1	Sprained finger.....	14
Tonsillitis	4	boils	1	Sprained wrist.....	2
Urinalysis	1	dermatitis	2	Stomatitis	1
Foreign B. Eye.....	1	urticaria	3	Thyroid	6
Refers	172	Heart exam for basketball.	294	Tonsillitis	2
				Urinalysis	2
				Vac. dressed	3
				Wass.	4
Total	332		494		237

ORGANIZATION • PHYSICAL EDUCATION • MENS DIVISION

DIRECTOR ST. JOHN

REQUIRED COURSE

TEACHING PERSONNEL

Dr. Nichols
Dr. Castleman
Dr. Wilce
Mr. Trautman
Mr. Cobb
Mr. Olsen
Mr. Essman
Mr. Mooney
Mr. Staley
Dr. Duffee
Mr. Grouninger
Mr. Billingsley

ACTIVITIES

Formal Gymnastics
Corrective Gymnastics
Boxing
Wrestling
Track
Cross Country
Soccer
Football
Baseball
Basketball
Speedball
Tumbling
Fencing
Jiu Jitsu
Volley Ball
Cage Ball
Hand Ball
Tennis

ADMINISTRATION

Medical & Physical Examinations
Health Service
Hygiene
Schedules
Records

Number of students served
2000

PROFESSIONAL COURSE

TEACHING PERSONNEL

Mr. St. John
Dr. Castleman
Dr. Wilce
Dr. Nichols
Miss Clark
Mr. Trautman
Mr. Cobb
Mr. Olsen
Mr. Ward
Mr. Essman
Mr. Mooney
Mr. Staley

ACTIVITIES

Kinesiology
History and Principles
of Physical Education
Corrective Gymnastics
Theory and Practice
Practice Teaching
Football
Baseball
Basketball
Track
Prevention of injuries
and Athletic Training.
Hygiene and School
Health Problems.

ADMINISTRATION

Schedules
Records
Conferences
Courses

Number of students served
100

INTRAMURAL

TEACHING PERSONNEL

G. P. Ward and
Managers
Mr. Haft
Mr. Cobb
Mr. Essman
Maj. Nunsig
Mr. Trautman

ACTIVITIES

Soccer
Football
Indoor Baseball
Cross Country
Golf
Basketball
Bowling
Foul Shooting
Boxing
Wrestling
Fencing
Festival
Horseshoe Pitching
Playground Ball
Track
Baseball
Tennis
Swimming

ADMINISTRATION

Schedules
Protests
Officials
Records

Number of students served
5000

INTER-COLLEGIATE

TEACHING PERSONNEL

Mr. St. John
Dr. Castleman
Dr. Wilce
Mr. Trautman
Mr. Olsen
Mr. Ward
Mr. Essman
Dr. Duffee
Mr. Haft
Mr. Staley
Mr. Taylor
Mr. Pollard
Mr. Eckelberry
Maj. Nunsig
Capt. Herlihy
Mr. Wirthwein

ACTIVITIES

Football
Basketball
Baseball
Track
Cross Country
Tennis
Wrestling
Gymnastics
Golf
Fencing
Rifle Shooting

ADMINISTRATION

Finance
Schedules
Tickets
Publicity
Medical Service
Records

Number of students served
1500

RESPONSIBILITIES • PHYSICAL EDUCATION DEPARTMENT • WOMEN'S DIVISION

DIRECTOR WOMEN'S DIVISION

HEALTH

MEDICAL ADVISOR
DR. JONES

Physical
Examinations
Conferences
Hygiene

Correction
of Defects
GILMAN - HILL
Posture
Dysmenorrhea
Nutrition

PHYSICAL EDUCATION
STAFF
Health Conferences
Winter Quarter

ACADEMIC REQUIREMENT

MISS JOHNSON

SCHEDULES

Incomplete
Failures

Progression
in Courses

ACTIVITIES

PROFESSIONAL COURSE

MISS HERSEY

Schedules
CLARK

Practice
Teaching
HERSEY

Theory & Practice
CLARK - HERSEY
PALMER - JOHNSON
CHENEY - SUMPTION

Correctives
GILMAN

Kinesiology
JOHNSON

RECREATION

MISS PALMER

CLASS TEAMS

Autumn
Hockey
SUMPTION
HERSEY
Tennis
PALMER
CHENEY
Volley Ball
HILL
Archery
HERSEY

Spring
Baseball
PALMER
JOHNSON
Tennis
CHENEY
HILL
Archery
HERSEY
Field &
Track
HERSEY
JOHNSON

Winter
Basketball
HERSEY
PALMER
Indoor Baseball
JOHNSON
Soccer
HERSEY
CHENEY
Gymnastics - SUMPTION

ORGANIZATION TEAMS

Winter
Basketball
PALMER
Soccer
HERSEY

Spring
Baseball
JOHNSON
Tennis
CHENEY
HILL
Archery
HERSEY
Horseshoes
PALMER

Autumn Quarter

Hockey
SUMPTION
JOHNSON
HERSEY
PALMER

Dancing
CHENEY

Correctives
GILMAN
HILL

Archery
GILMAN
HILL

Volley Ball
HILL
JOHNSON

Winter Quarter

Basketball
HERSEY
SUMPTION
JOHNSON
PALMER

Dancing
CHENEY

Gymnastics
SUMPTION
HILL
JOHNSON

Correctives
GILMAN
HILL

Baseball
PALMER
HERSEY

Track
SUMPTION

Dancing
CHENEY

Archery
HERSEY
HILL

Spring Quarter

Correctives
GILMAN
HILL

HEADS of SPORTS
Intramural Managers

W. A. A. BOARD
Advisor-Miss Palmer

THE OHIO STATE UNIVERSITY

REPORT—PROFESSIONAL COURSES

(By DR. J. H. NICHOLS)

MAJOR IN PHYSICAL EDUCATION

- I THE NEED
- II AIM OF COURSES
- III THE CURRICULUM
- IV PRESENT STATUS (enrollment, etc.)
- V TEACHING PERSONNEL
- VI EQUIPMENT AND FACILITIES
- VII RECOMMENDATIONS AND NEEDS

As the major in physical education has only recently been established and as there have been inquiries and expressions of interest, both on the part of individuals and other institutions in regard to this new curriculum, I will submit a more inclusive report of the aims, organization, activities, and service of this division of the department's program than would ordinarily seem necessary.

I THE NEED

For years the department had realized the need for providing University training for men and women going into this phase of educational work. More than 20 years ago Oberlin College established a major course for the training of young men and women in physical education. Since that time many colleges and universities have responded to this need by including such courses in their curriculum.

Since the war this demand has become even more insistent and in the year 1921 44 colleges and universities were offering training in this field. Since that date this number has been greatly increased. In the State of Ohio alone the following institutions are offering a major in physical education and coaching: Oberlin, Wesleyan, Cincinnati, Miami, Ohio University, and Akron.

This rapid growth is the result of the insistent demand on the part of college presidents, superintendents of schools, principals, recreational leaders, and industrial concerns for college men and women who are qualified by professional training and personality to fill these positions of leadership and influence.

II AIM OF THE COURSES

We believe that the physical educator must have an academic and professional training that is the equal in every way to that of the educator in other lines. He must be respected as the intellectual equal of those who are engaged in the teaching of other subjects in the schools or colleges.

There is no reason why the college trained physical educator should not be regarded as among the most influential and intellectual members of the Faculty. His character and work, however, must justify this. The properly trained man in this field should be as good material for the principalship or superintendency as any other educator.

With these ideas in mind, the curriculum has been so arranged that a broad, general, and scientific education is combined with the specialized training. The course as arranged gives opportunity for special emphasis along one of three lines: (1) physical education and health supervision in schools and colleges; (2) athletic coaching; (3) community reaction. The course was drawn up after a most thorough study of other courses and the needs of students in this field. The course meets in every respect the general and special requirements of the College of Education and leads to the degree of Bachelor of Science in Education.

III THE CURRICULUM

The subjects making up the curriculum naturally fall into four general groups:

Group 1. The general subjects including English, Foreign Language, Sociology, Psychology, History, Public Speaking, and electives, with approximately 54 hours in this group.

Group 2 is made up largely of science and includes Chemistry, Zoology, Anatomy, Physiology, Bacteriology, and Hygiene.

Group 3, dealing chiefly with educational theory, includes: Survey of Education, Educational Psychology, History of Education, Principles and Practice of Education, School Administration, and electives.

Group 4 includes the professional Physical Education Courses, History and Principles of Physical Education, Kinesiology, Therapeutic Gymnastics, Hygiene, and School Health Problems, and 24 hours in the Theory and Practice of Physical Education, including Athletic Coaching. This course in the Theory and Practice of Physical Education continues through the sophomore, junior, and senior years, and aims to acquaint the student with the methods and technique of organizing and conducting the special activities included in the field of health and physical education. Students are expected not only to master the theory, but also to acquire a moderate degree of skill in these activities. Opportunity is given in the practice teaching courses for teaching and coaching the different sports. We have avoided the emphasis and over-development, which some institutions have put on the coaching idea, believing that students will go further and contribute more in any field, who build on a broad, cultural, and scientific basis.

IV PRESENT STATUS

In 1923-1924 the sophomore work in the course was first offered and next year, 1924-1925, the junior year's work will get under way; and with the beginning of the Autumn Quarter of 1925-1926 the complete course will be in operation, and the first students will graduate in this course in 1925-1926.

The first two years are now functioning fairly efficiently. The course has naturally added an extremely heavy burden to the department, and it will require the untiring effort and co-operation of every member of the department to swing this course successfully, under the present conditions.

In 1923-1924, the first year of the course, nine men and 20 women were enrolled in the course. This year 29 men and 60 women are registered. During the two years in which the course has been in effect thousands of requests have come in from all over the country, asking for information in regard to the course and a copy of the special Physical Education Bulletin. The mailing room has notified the department that there is a continuous and heavy demand for this bulletin. The supply of 5000, published last year, has already been completely exhausted.

Before registering for this major, women are required to see Miss Clark, and the men Dr. Nichols. In some cases students are not qualified physically or personally to make a success in this field. The contacts in physical education are of necessity less formal than in most lines of education, and this means that a positive personality is an absolute necessity. It also means that the physical education teacher and coach usually gets closer to the students and has greater influence with them than any other teacher. High ideals and character are far more essential than athletic ability.

V TEACHING PERSONNEL

With the addition of the senior courses in 1925-1926 practically every member of the Men's and Women's Departments will be contributing in the instructional work in these courses.

In order to handle the work when it is all under way, it will be necessary to add one high grade man to the staff. This has received the President's approval, although we have not been able to find the man who meets the requirements, as yet.

VI EQUIPMENT AND FACILITIES

The equipment and facilities of the present plant have proved most inadequate for our present needs. The rapid growth of the professional courses has created urgent demand for more floor space, and it is only with the greatest difficulty that we have been able to arrange the practical work for these students.

These courses, together with those of the required work in physical education, have called for the use of every inch of space at every hour of the day, in both the Men's and Women's Division.

VII RECOMMENDATIONS AND NEEDS

1. Indoor Space.

The greatest need for increasing the efficiency of the program includes the construction of a modern gymnasium for the men, and the completion of Pomerene Hall for the women, which will afford opportunity for the scheduling of the work for the major students who are taking required work in physical education.

2. Natatorium.

We are also greatly handicapped by the lack of natatoriums for men and women. The students in these courses are expected to carry on aquatic activities, and without

a pool we can do nothing. This need is even more keenly felt by the student body as a whole, which naturally and rightfully looks upon swimming as one of the healthiest and most enjoyable of all physical activities.

3. *Outdoor Space.*

There is also great need for the provision for an athletic field where the women may have the opportunity for out-of-door sports. The present space is far too public and the games are often interrupted by pedestrians passing across the play space. The field which they are now using is temporary and will be used for building purposes.

There should also be a field house providing showers and dressing rooms, as well as accommodations for group games when the weather is bad.

4. *Additional Instruction.*

Both from the standpoint of strengthening the teaching personnel and from the standpoint of the increased teaching load involved, one high grade instructor is needed, who will be qualified to handle some advanced courses in theory and practice and also assist in the administration.

A total of 45 teaching hours is added to the department's load in this work. In addition there is a constantly increasing amount of administrative and advisory work.

5. *New Bulletin.*

The department should prepare a new bulletin. The great demand for the last bulletin has indicated the interest and need. Several important changes have also been made in the past two years that should be incorporated in the new bulletin.

INTRAMURAL DEPARTMENT 1923-1924

(GRANT P. WARD, Director)

SUMMARY OF PARTICIPATION

That the steady increase in participation in intramural sports at Ohio State has not yet reached its limit is shown by the fact that the department's record books for the year 1923-1924 indicate that 14,827 men took part in the 19 sports as compared to 12,789 participants last year. This is an increase of 15.94%. This general summary would indicate, therefore, that our system of intramurals is making steady progress toward its goal of enrolling every man in at least one sport a season.

To be impressed anew by Ohio State's leadership in intramurals, it is necessary only to call to mind the words of George E. Little and Elmer D. Mitchell of the University of Michigan, who stated in their respective summer courses of "Organization of Intercollegiate Athletics" and "Organization of Intramural Athletics" that Ohio State University not only has the greatest intramural system in the country, but has also achieved the most success.

While Ohio State continues this year to hold first rank in the matter of participation, an earnest effort on the part of other schools to climb higher in the intramural ranking was evident as is shown by the fact that Michigan passed Illinois, while Minnesota went into fourth place. Four thousand dollars was expended at Minnesota for the expressed purpose of placing intramurals on a sound and progressive basis. This \$4000 was exclusive of the Director's salary. Should Minnesota enjoy this same amount of increasing success next year, she will surpass Michigan and Illinois. Purdue, practically following the Ohio State system in all its phases, ranks fifth. It is well to note that every Western Conference school now has some one definitely in charge of intramural athletics. Chicago, the last school to adopt that standard, also has modeled her system on our pattern.

Choosing basketball, the most popular intramural sport, as an example, it is found that Ohio State enrolled 232 teams in 38 leagues, while Michigan had 138 teams and Illinois 118. Of these three schools, Ohio State's record showed the only decided increase. Minnesota and Purdue both had more than 100 teams. Wisconsin, engaging an intramural director for the first time, had 64 basketball teams, "the largest number in its history."

On the basis of our records, there is not a single sport in our calendar in which we do not lead the Conference. There are a few sports, such as ice hockey and water basketball, which because of inadequate facilities, Ohio State does not promote. A survey of the participation summary given below shows that indoor baseball, horseshoe pitching, playground ball, relay carnival, and baseball, there were enrolled in each well over 1000 participants; while both the festival and basketball continued to attract more than 2000 each.

One new sport, indoor golf, promoted in the form of a "putting" tournament, was added to the intramural program. It was found that the sport fitted in well in the fall calendar.

Its popularity cannot be doubted, judging from interest displayed, and it would appear that this sport has found a definite place on the intramural calendar. It seems proper that attention should again be called to the fact that the figures given in the participation records represent the actual number engaged in the various sports. As fast as the games are played the names of the participants are entered on loose-leaf permanent record paper, and at the end of the year the records are assembled and bound into four volumes of better than 1000 pages, all work being done by the intramural managers.

A pleasing feature of the participation figures this year is the increasing tendency of non-fraternal organizations to challenge the supremacy of the fraternities in intramural competition. More and more there are coming into the intramural scope teams representing churches, independent organizations, boarding clubs, and military units. And not only is the increase in number alone apparent, but also the caliber of the teams is higher as is shown by a survey of the champions. A splendid example of this is the work of the King Avenue M. E. Church team, which emerged second in participation points and won the University basketball championship. While at other schools the task of increasing enrollment continued to be a momentous one, at Ohio State the problem becomes one of caring for the larger number of non-fraternal as well as fraternity teams attracted. As an evidence of the popularity of college awards, it is well to note that where the College of Law had a monopoly on college medals and trophies last year, this year the awards were well distributed among the various colleges.

A summary of the participation figures for the year follows, with a more detailed record appended.

Sports	Number
Soccer (36 teams)	568
Football—interclass (4 teams)	138
Indoor baseball (77 teams)	1,007
Cross Country	132
Indoor golf	223
Basketball (232 teams)	2,142
Bowling (104 teams)	797
Four shooting	693
Boxing (individual)	204
Wrestling (individual)	189
Fencing (individual)	43
Festival—indoor track (94 teams)	2,451
Horseshoe pitching (103 teams)	1,012
Playground ball (84 teams)	1,242
Relay carnival—outdoor track (69 teams)	1,763
Baseball (93 teams)	1,321
Tennis (105 teams)	405
Golf (20 teams)	96
Swimming (40 teams)	411

Total for year 1923-1924 14,827

Total for year 1922-1923 12,789

Net gain over previous year..... 2,038

Sport	Teams	Leagues	Contests	Individuals
Soccer	36	9	66	568
Cross Country .....	..	..	1	132
Indoor baseball	77	12	114	1007
Football (interclass)	4	1	4	138
Indoor golf .....	..	..	3	223
Basketball	232	38	551	2142
Bowling	102	17	279	797
Four shooting	75	..	1	693
Boxing .....	..	..	196	204
Wrestling .....	..	..	172	189
Fencing .....	..	..	37	43
Indoor track	94	..	1	2451
Horseshoe pitching	103	16	304	1012
Playground ball	84	13	232	1242

THE OHIO STATE UNIVERSITY

Sport	Teams	Leagues	Contests	Individuals
Outdoor track	69	..	1	1763
Baseball	93	14	264	1321
Tennis	105	..	213	405
Golf	20	..	72	96
Swimming	40	..	1	411
Totals.....	1134	120	2512	14,827

SUMMARY OF AWARDS

Sport	League Cham-pions	Group Cham-pions	Group Runner Up	Univ. Cham-pions	Re-lays, Etc.	Cham-pions Medals	Rib-bons	Sweat-ers	Pla-ques
Soccer	9	..	..	1	1	14	..	..	..
Indoor baseball.....	11	2	2	1	..	12	..	12	..
Indoor golf.....	..	..	..	1	..	3	..	..	1
Cross Country.....	..	..	..	1	1	10	..	..	..
Basketball	38	2	2	1	5	8	..	8	..
Bowling	18	2	2	1	..	10	..	8	..
Four shooting .....	..	..	..	1	1	3	..	..	..
Boxing .....	..	..	..	..	..	14	..	..	..
Wrestling.....	..	..	..	..	..	14	..	..	..
Fencing .....	..	..	..	..	..	3	..	..	..
Festival									
(Indoor track) ....	..	..	..	1	14	13	247	6	..
Horseshoe	15	2	2	1	..	10	..	6	..
Playground ball.....	13	2	1	1	..	12	..	12	..
Carnival									
(Outdoor track) ..	..	..	..	1	12	11	262	8	1
Baseball	13	2	2	1	..	16	..	4	..
Tennis .....	..	..	..	1	..	8	..	3	1
Golf .....	..	..	..	1	..	6	..	..	2
Swimming .....	..	..	..	1	3	8	85	..	2
Totals.....	117	12	11	15	37	175	594	67	6

* NOTE: All-year participation cups for both college and organizations not included.

SUMMARY OF SPORTS

FALL SPORTS

Soccer

The fine performance of the Rainbow Team, which for the third consecutive year claimed the University championship in this sport, again featured the intramural soccer season. With a record of never having its goal crossed by an opponent, the Rainbow Team remains the undisputed champion in the sport. Games were arranged by the department for 36 teams drawing 521 men into play.

Cross Country

Establishment of a new record of 15 minutes, 52 3-5 seconds by Robert R. Couch was one of the pleasing factors in the eighth annual Intramural Cross Country Run held November 13 over a three-mile course, in which 132 men participated.

Indoor Baseball

More than a thousand athletes heeded the call of the first intramural indoor sport in the fall, the men being divided into 11 leagues and 77 teams. This enrollment represents an increase of 11 teams in this sport, which attests to its growing popularity. Only with increased accommodations, however, will the department be able to arrange matches for all teams wishing to engage in this sport in future years.

Indoor Golf

A newcomer to the intramural program, the indoor golf "putting" tournament, attracted 223 men and 24 teams. The tournament was conducted at the Athletic Supply Store. The plan was to allow each man nine putts at different distances, with a small metallic cup as the goal. Individual championship was based on low stroke number for 36 holes.

WINTER SPORTS

Basketball

Holding its place as the most popular intramural sport, basketball drew 232 teams into play, representing an increase of 29 teams over last season. Confronted with the task of scheduling contests for 2142 men, the department, with only three courts available, found it necessary to use every hour possible to care for all teams within the season's bounds. Accordingly, an average of over 100 games a week were planned. For the second year, the Class "C" division was used in addition to Class "A" and Class "B" leagues. The fact that the King Avenue M. E. Church Team won the University championship in this sport is the strongest proof of the season's records that supremacy of fraternity teams does not hold for all sports. Forty-nine teams were allowed to participate without payment of fees, which shows the tremendous growth of basketball. Four years ago only 12 teams were exempted from fee payment. The free teams included 19 college, 8 faculty, 12 gym teams, and nine military outfits.

Bowling

So many participants crowded into the alley game this winter that it was necessary to prolong the season several days to finish the schedule. An increase of close to 200 individuals this year attests to the growing popularity of the sport. Again an independent team, the Burkholz Five, won the University title, making the third consecutive year for its supremacy in bowling. Because of the courtesy of Mr. G. E. Adams, proprietor of the College Inn Alleys, facilities were furnished free of charge; and it was also possible to conduct the third annual Western Conference Bowling Tournament there.

Wrestling, Boxing, and Fencing

Contests in these sports, staged under supervision of competent instructors in the Physical Education Department, kept interest in intramurals intensely alive during the winter months. Employing again the elimination method, the department had little difficulty in scheduling matches for the 436 men who engaged in the three sports.

Festival (Indoor Track)

For the tenth time in its history, the Ohio State Intramural Department conducted its indoor festival this year; and progress in the matter of the quality of the meet, as well as the numbers taking part, was noticeable. Two thousand four hundred and fifty-one athletes participated in the meet, which was again held in the Coliseum. The publication of the intramural festival program, edited to supply information about the indoor meet and to give an illustrated and complete record of the year's activities, was again a feature of the festival.

SPRING SPORTS

Baseball

Teams representing 93 organizations took to the diamond this spring, giving this sport an increase of 202 participants over the number enrolling last year. With the problem of equipment supply solved, the department still encountered difficulty in carrying on a successful season. The Stadium diamonds were in terrible shape, and the heavy rains of the spring rendered them practically impossible for decent baseball.

Playground Ball

Eighty-four organizations took to playground ball this spring, drawing into competition 1242 men. There being no corresponding Varsity sport and the work of organizing nines being comparatively easy because no especial skill is requisite, playground ball is one of the most satisfactory intramural sports. Attesting to this fact is the increase of participants by nearly 400 men over the number of last year and also the appearance of 28 new teams. Six diamonds were used practically every day.

Horseshoe Pitching

Horseshoe pitchers in increasing numbers continued to flock to this intramural sport this year, the season being satisfactory not only from participation records standpoint and interest displayed, but also because of the noticeable increase in skill of the players. During the spring season the courts back of Page Hall were continually alive with 103 six-man teams, bringing 1012 men into play.

Swimming

The scene of the annual swimming meet was changed from the Indianola pool to the new Y. M. C. A. tank. Considerable interest was manifested in the sport. The thanks of the department are due to Mr. E. W. Roehm, who made arrangements for the pool for two nights, and also to Manager Steele of Indianola Park, who kindly donated 100 bathing suits. It is hoped that the department will again have the opportunity of giving student swimmers a chance to show their abilities, so that in case a Varsity swimming team becomes a reality material available will not be an unknown factor.

Relay Carnival (Outdoor Track)

Rain once more somewhat put a damper on the success of the outdoor meet this spring. But 1763 athletes being enrolled in the sport, there is left no question as to its popularity. An innovation was the employment of the two-day preliminaries' plan.

Tennis

Four hundred and five tennis players kept the department busy scheduling matches for them. That figure represents an appreciable increase in participants.

Golf

The number of participants in golf showed an increase. Although the department is still unable to schedule matches because of the lack of a golf course, student golfers again manifested a willingness to arrange their own play and turn in their scores. A total of 20 teams and 96 men took part.

RECOMMENDATIONS

Soccer

With the popularity of this sport increasing each season, it is evident that the present number of soccer fields will soon be inadequate to care for the increased enrollment. Games this year were scheduled for 36 teams playing in three fields. The need for additional fields is urged.

Indoor Baseball and Basketball

For the promotion of these popular sports the proposed new gymnasium will be a much needed improvement. Present indoor baseball facilities are limited to one diamond; and should the new gymnasium materialize, at least three diamonds should be provided.

Conditions are most deplorable as far as basketball is concerned. Facilities are in a cramped state not only for actual contests, but also for practice sessions. Scheduling games for 232 teams last year was a problem because only three basketball courts were available. No less than six courts are needed at once. In addition, there should be an equipment room and an office for student managers in the new gymnasium for at least from October 1 to April 1 for indoor baseball and basketball supervision.

Swimming

Staging the third annual Intramural Swimming Meet at the Y. M. C. A. pool this year did not meet with the success anticipated because of the inconvenience experienced. It is suggested, therefore, if practical, that steps be taken immediately to make some provisions for a swimming pool on the campus. In case no pool is built before the new gymnasium is erected, a pool should be included in that building.

Baseball

Decided improvement was noticeable in this sport this year because the long-needed diamonds were provided. However, they are far from being in ideal shape, and it is recommended that especial attention be given to improving the eight diamonds south of the Stadium. The ground is soft and covered with mud and weeds, thus making good baseball practically impossible.

General

Loss of valuables during the intramural contests has become a serious problem. It is accordingly recommended that at least \$150.00 be appropriated for paying a man to check valuables during basketball season. Several lockers were broken into this year; and, with a man on duty from 6:00 until 11:00 o'clock every night, this trouble would be remedied.

Although the department is not yet in a position to promote handball, rifle shooting, and volley ball, these sports are being kept in mind as future additions to the program; and they will be started when the opportunity presents itself.

So popular has become the system of awards to successful college teams in addition to the league and group trophies that the department highly recommends a further extension of this proposition. More charms and sweaters should be offered college participants next year.

It is further respectfully recommended that an appropriation of \$350.00 (amounting to \$40.00 a month) be made for a part-time stenographer for the department. It may be possible to find a student who can give part time and accept pay by the hour.

Before long bowling facilities will become inadequate, according to Mr. Adams, who has donated his alleys for the department's use in the past. The department has been fortunate in this sport since the only expenses incurred are wages paid foul judges. The number of bowling teams increased 35% this year, and Mr. Adams fears that it has passed the stage where he can spare the alleys for such a long period of time. Bearing in mind that bowling is a healthful sport, which is coming into increasing favor, and remembering that increased facilities will be needed to perpetuate the Western Conference Bowling Tourney, it is recommended that arrangements be made for bowling alleys to be constructed in the new gymnasium, under the Stadium, or in the new Union.

With the addition of \$600.00 to the budget, it would be possible to reduce fees in the majority of sports to \$1.00 a team. As at present constituted, the \$2.00 fee system has a tendency to prevent teams from enrolling in all activities. Yet a fee of some sort is essential because increased participation brings about a larger expense.

Unless some means is found to sell advertising to finance the intramural handbooks for each season and the printed league schedules, an addition on the budget for that purpose should also be forthcoming. Ohio State continues to be the only school with any amount of adequate material for such a book. Michigan and Illinois each puts out a handbook once a year; but Ohio State still has 10 times as much printed material as all other Western Conference schools combined. Thus firmly established, the literature end of the system should receive further encouragement for its maintenance.

By a recent act of the Retail Merchants' Association, previous fields of advertising for these books has been barred to the department. These pamphlets have come to play a prominent role in conducting the system, not only as a successful medium between the department and its patrons, but also as a powerful tool of publicity for broadcasting the department's methods throughout the country. Accordingly, it is believed that the publication is too important to be discontinued. Should attempts to obtain national advertising fail, it would be most imperative that provisions be made for the printing of the books in the annual intramural budget.

Previous mention has been made of increased financial efforts for promotion of intramurals by contemporary Western Conference schools. Willingness of the Athletic Association of Ohio State to back our department is a source of wonder to most other schools; and the department wishes gratefully to acknowledge its appreciation of the financial aid offered and hopes that its future work will continue to merit this assistance.

Finally, it should be borne in mind that the propositions of financing the intramural program and at the same time affording equal opportunity to all teams encouraged to enter the field combine to form a unique problem. Where, in most enterprises involving expenditure of money, the overhead increases very slowly with increasing activity, such is not the case with intramurals. Provision of adequate equipment and facilities becomes a greater and greater task with the expansion of the department. Accordingly, it is only natural that a seemingly greater proportion of money is necessary for the maintenance of the department each year.

FINANCIAL STATEMENT

With the exception of payment for referees of intramural games, every item of expense on this year's records shows a decrease over that of the corresponding nature for 1922-1923. However, due to the large participation, cost of officials was \$417.00 more than a year ago in the total payment for all sports. Receipts in practically all lines were higher than a year ago; and those for fees alone showed an increase of \$235.00. This was offset, however, by a

further decrease in receipts of the festival; and it would seem that unless some new angle of interest can be injected into the festival next year that the saturation point has been passed in the matter of attendance at this event. The principal items of increase in the new budget are meant to take care of three outstanding and much-needed improvements: reduction of fees in the majority of sports from \$2.00 to \$1.00, installation of a system to check valuables in the gymnasium at night during basketball games, and the hiring of a stenographer for the department.

DIVISION OF INTERCOLLEGIATE ATHLETICS

(By G. M. TRAUTMAN, Assistant Director)

INTRODUCTION

The entire intercollegiate athletic program at Ohio State University is based upon the theory now accepted among progressive educators that athletics, properly directed, make an important contribution in the field of education. The amount of money necessarily involved in a modern scheme of intercollegiate athletics is not justified alone by the physical values obtained by those participating. Beyond this item are the moral values that are obtained and expressed on the play fields, and these cannot but leave a lasting impression upon the great host that annually takes part in and upon the hundreds of thousands who witness intercollegiate contests. Moreover, the increased participation of the student in a united intramural program is only made possible by subsidies from intercollegiate gate receipts.

I AIMS AND PURPOSES

The Division of Intercollegiate Athletics at Ohio State University aims to provide:

1. A comprehensive program of intercollegiate competition in as many branches of competitive sport as seem wise and as facilities will permit.
2. A mental and physical training through a program of educational athletics for the students of the University, involving many of the basic principles of education, such as initiative, self-reliance, co-operative endeavor, discipline, and moral courage.
3. Opportunities to meet in contests the representatives of other educational institutions, and there to furnish a wholesome and common rallying point—a spirit, if you please, around which may gather faculty, students, alumni, and friends of the University.

II ORGANIZATION

The power to control all matters pertaining to athletics in the University, subject to such regulations as may be prescribed from time to time by the University Faculty and the Board of Trustees, is vested in the Athletic Board of nine members and constituted as follows:

Five members of the University Faculty, or a majority, appointed by the President of the University.

Two member of the Ohio State University Association elected by the alumni.

Two students elected by the student body.

The personnel of the Board as the report is written is:

Professor T. E. French, Chairman	Professor D. J. Kays
Professor O. V. Brumley	Mr. Ralph Hoyer
Professor C. T. Morris	Mr. Samuel N. Summer
Professor Charles St. John Chubb	John B. Wilson

Raymond J. Marts

R. M. Royer, University Purchasing Agent, is treasurer of the Board. The direction and management of competitive athletics are under the direct supervision of Professor L. W. St. John, who has surrounded himself with the following full time personnel:

Dr. F. R. Castleman	Mr. G. P. Ward
Dr. J. W. Wilce	Mr. H. D. Taylor
Dr. J. H. Nichols	Mr. J. E. Pollard
Assistant Professor G. M. Trautman	Mr. W. J. Essman
Assistant Professor S. H. Cobb	Mr. B. F. Mooney
Assistant Professor H. G. Olsen	Mr. L. G. Staley

Dr. W. E. Duffee

In addition to these men there are a number of assistant coaches recruited from among the alumni and student body.

III PHYSICAL PLANT

A. THE STADIUM

The building of the Stadium has gone a long way toward making possible an intensive sports program at the University, and as new units are added, increased participation under

almost ideal conditions is made possible. The Stadium with a permanent seating capacity of 65,000, which may be increased to 80,000 by the use of temporary stands, furnishes unsurpassed accommodations for both spectators and participants. The Stadium contains one of the finest of football playing fields. Encircling it is a fine quarter-mile track with two 220-yard straightways.

Underneath the seat banks, excellent use is being made of available space, which to date includes:

1. A 12-lap cinder track and a 120-yard straightaway, indoor jumping and vaulting pits, and other track facilities.
2. Under-cover practice facilities for football, baseball, and tennis.
3. A number of volley ball and hand ball courts erected for Faculty use, which have proven popular through the winter season.
4. A mammoth electric score board where play by play accounts of football games away from home are recorded. Thousands of students and others take advantage of this opportunity of watching the team through the scoreboard's eyes.

The four Stadium towers are rapidly being furnished and equipped for all sorts of activity. So far provision has been made for:

1. Locker and shower rooms.
2. Team and equipment rooms.
3. Rooms for first aid service, training, and medical equipment headquarters.
4. Indoor golf cages.
5. Wrestling rooms.
6. Fencing room.
7. Lecture rooms and offices.
8. One of the north tower rooms has been recently furnished and equipped for the use of the University Band.

The future development of the Stadium itself for additional recreational facilities will be pushed as rapidly as funds become available for this purpose. The future plans call for:

1. Enclosing with glass the entire underneath area of the Stadium, which will make possible:

- a. Additional locker and shower rooms.
- b. Squash and hand ball courts.
- c. Basketball courts.
- d. Possible development of most every form of recreation and competitive activity on the indoor educational sports calendar.

B. The environs of the Stadium make available a vast acreage for recreational purposes. The student body, with an enrollment of over 10,000, is already under the influence of a proposed 100% participation in intramurals and taxes present facilities to the limit. To care adequately for the student body that is rapidly learning the value of recreational and competitive athletics, additional play space is needed; and what better investment can the State, through the University, make than to provide space where future citizenship may get the contributions from the field of play, which will aid them in playing the game of life?

On the acres adjacent to the Stadium may be found:

1. The Varsity baseball diamond, with permanent seats for 6000 people.
2. Sixty tennis courts or about enough to meet half the demand for them.
3. Three football fields, where Varsity and freshman teams work out and where inter-class games are played.
4. Intramural activities also find their chance for expression here and now have in use six baseball diamonds, 12 playground ball fields, four soccer fields, outdoor track facilities, a polo field, horseshoe pitching courts, and the like.

To care adequately for the student needs there should be developed:

1. Additional playfields of all kinds.
2. A complete athletic field for girls, including field house, running track, hockey fields, etc.

C. THE GYMNASIUM

Originally planned and constructed for use as an armory, the present gymnasium serves as best it can the demand for indoor facilities. Varsity wrestling and gymnastics are the limit of its possibilities so far as Varsity teams are concerned. The required work in physical education for men, treated separately in this report, has its headquarters here.

D. The State Department of Agriculture, co-operating with the Athletic Department, has placed at the University's disposal the Coliseum at the State Fair Grounds. Here Varsity basketball is played before crowds of from 4000 to 10,000 spectators. The Coliseum also houses the Intramural Festival, the largest single event promoted by the department.

E. The Barracks on the campus house the rifle range and furnish a working headquarters for the Varsity rifle teams.

IV PROGRAM

Ohio State University is a member of the Western Conference, an organization of 10 of the largest universities of the Middle West. Eligibility for competition is prescribed and regulated by this association. It is among this group membership that Ohio State Varsity teams find their chief competition. The Division of Intercollegiate Athletics at present maintains and furnishes instruction in 11 Varsity sports, which are divided into two divisions: (1) Major Sports; (2) Minor Sports. Under the Major Sports caption are listed football, basketball, baseball, track, and cross country. Under the Minor Sports caption are listed tennis, wrestling, golf, gymnastics, fencing, and rifle shooting.

MAJOR SPORTS

1. Football

Football is directed by Dr. J. W. Wilce, and assisting him in the coaching of the Varsity squad are Director St. John, G. P. Ward, W. J. Essman, Howard F. Yerges, and Donald W. Wiper. Football for freshmen is directed by G. M. Trautman, assisted by Charles Seddon, Clarence A. McDonald, Kenneth H. Pauley, Lloyd A. Pixley, and Anthony R. Fiorette.

The rules of the Western Conference prohibit freshman teams competing except among their own college groups. In order that the 300 boys who each year report for the freshman squad may have an opportunity to play, a freshman league has been formed, the freshman squad being divided into groups which compete among themselves. Each group has its own coach and is equipped with a distinctive uniform. Freshmen are now being taught fundamentals of football, instead of serving as "cannon fodder" for the Varsity teams.

2. Basketball

Basketball is under the direction of H. G. Olsen, with Clarence A. McDonald in charge of the freshman squad.

3. Track and Cross Country

The track and cross country teams are directed by Dr. F. R. Castleman, assisted by William D. Griffith and S. H. Cobb.

4. Baseball

The Varsity baseball is directed by L. W. St. John, assisted by G. M. Trautman. Freshman baseball is in charge of Anthony Dolezal and Clarence A. MacDonald.

MINOR SPORTS

5. Wrestling

The wrestling teams are directed by Al Haft and B. F. Mooney.

6. Tennis

The tennis teams are under the direction of Raymond L. Grismer, a member of the instructional force of the Department of Romance Languages.

7. Gymnastics

Gymnastics are directed by L. G. Staley, assisted in an advisory capacity by Dr. J. H. Nichols.

8. Fencing.

Major Louis Kunzig of the Department of Military Science directs the Varsity fencers.

9. Golf

Professor George W. Eckelberry of the College of Commerce and Journalism directs the Varsity golf squad.

10. Rifle Shooting

Captain Edward Herlihy of the Department of Military Science directs the Varsity rifle team.

MEDICAL SERVICE

Dr. W. E. Duffee is the physician in charge of the medical service for all Varsity teams. The University Hospital staff and Faculty serve Varsity men in need of such service.

E. G. Gurney, in addition to acting as custodian of equipment, is the team trainer.

TICKET SALES

Ticket sales for all Varsity contests are in charge of Henry D. Taylor, with offices in the Athletic House.

PUBLICITY

J. E. Pollard not only serves as Director of Publications for the Athletic Department, but dispenses University publicity of a general nature.

VARSITY AWARDS

For meritorious service rendered Varsity teams, team members are awarded Varsity letters, subject to certain standards established by the Athletic Board.

The distribution of Varsity awards in all sports for the year follow:

Sport	VARSITY					FRESHMAN			
	Maj. "O"	Minor "O"	Mgrs.	"OAA"	Squad Numerals	Sweaters and Numerals		Numerals	
						Squad	Mgrs.	Squad	Mgrs.
Football	24	..	4	10	15	30	3	28	3
Cross Country	8	..	1	..	10	5	1	14	..
Basketball	5	..	1	3	..	12	1	5	2
Wrestling	1	7	1	2	..	7	..	8	..
Gymnastics .....	..	6	1	..	..	..	..	7	1
Baseball	11	..	1	2	..	12	1	5	2
Track	22	..	1	..	..	19	1	22	..
Tennis .....	..	5	1	4	..	..	..	5	..
Fencing .....	..	2	1	1	..	..	3	9	..
Rifle shooting .....	..	7	1	2	..	..	..	..	..
Golf .....	..	4	..	..	..	..	..	..	..
Intramural .....	..	..	3	1	..	10	..	..	..
Total.....	71	31	16	25	25	95	10	103	8

Including 11 sports, Ohio State Varsity teams during the school year 1923-1924 hung up a mark of .700 in the matter of victories and defeats. Taken by and large, although they won but one undisputed Big Ten championship and were tied for another, and were runner-up in a third, the year was one of the best in the history of Ohio State athletics.

The cross country team started the year well by annexing the hill and dale title of the Western Conference. The basketball team, after setting a season's record of winning six straight games in the Big Ten, finished in a tie for second place. The track, tennis, and baseball squads made fine records and the showing in track was the most gratifying in Ohio State history, while the baseball team tied with Michigan for Conference honors.

Engaging in 92 contests, Ohio State teams won 60, lost 27, and tied 5. In the Big Ten, they won 27 of 50 engagements, two being tied, for an average of .562. This was in spite of the fact that the football team got away to a bad start, and despite four defeats by the margin of three points or less for the basketball, and one-run loss to Michigan in baseball at the end of 11 innings, and four slim defeats in wrestling.

Outside of the Western Conference and against a roster of opponents which included such teams as Yale, Pennsylvania, and Cornell in the East, Cincinnati, Denison, Ohio Wesleyan, and Wittenberg of the Ohio Conference, and Butler of the non-conference institutions, Ohio State made its best showing. In 43 contests it was victorious 35 times, losing six games and being tied twice.

The cross country team was undefeated, defeating Ohio Wesleyan in a dual meet and triumphing over Michigan and Illinois in a triangular meet at Ann Arbor. The team reached

its heights by easily finishing first in the Big Ten championships. It was the first time in history that Ohio State won Big Ten cross country honors.

The football team, after losing to Michigan, Iowa, and Chicago, played brilliant football against Purdue and came within an ace of vanquishing Illinois in the final game of the year. The fine finish helped to atone for the slow start.

The track squad won four dual meets, lost two, and twice finished second in quadrangular meets with Wisconsin, Chicago, and Northwestern. The squad also finished fourth in the Big Ten championships and had Michigan worried in the annual dual meet between the two. It also made fine showings in the Ohio and Penn relays, in the American Olympic team try-outs, and placed two men on the Olympic team.

The tennis team won six and lost two team matches, tying another and being rained out of two others. The wrestlers won three and lost four team meets, but the figures do not begin to tell the story. The rather green mat squad lost four matches, all to Big Ten foes, but none by more than four-point margins. Illinois won by but a lone point, Indiana by only two points, Purdue by only a pair of points, and Northwestern by four points from the Ohioans.

The tabulated record follows:

Sports	Games Played	Won	Lost	Tied	Participants	Attendance at home only
Football	8	3	4	1	300	175,000
Basketball	17	12	5	0	150	65,000
Baseball	26	17	7	2	150	25,000
Track	6	4	2	0	300	4,000
Cross Country	3	3	0	0	200	1,000
Wrestling	7	3	4	0	125	5,000
Tennis	7	6	0	1	100	1,000
Gymnastics	3	2	1	0	50	1,000
Fencing	2	0	1	1	25	300
Golf	3	1	2	0	25	100
Rifle shooting	10	9	1	0	75	200
Total.....	92	60	27	5	1,500	277,600

Figuring in round numbers, between 375,000 and 400,000 persons saw Ohio State's Varsity teams in action during the school year 1923-1924. This estimate includes only dual competition except for two quadrangular track meets away from home and the Ohio relays, inaugurated here last April.

The total attendance for all sports, so far as available figures show, was the greatest in Ohio State history. Given even fairly successful seasons during the coming year in the major sports, it is believed that even the 400,000 figure may be exceeded in 1924-1925.

Nearly 280,000 spectators saw Varsity contests played here. Football drew more than all other sports combined with a total attendance, at home and abroad, of slightly more than 225,000. This number is more than enough to fill the vast Ohio Stadium three times and still have a sizeable throng left over.

Basketball, interest in which was stimulated here by the best Ohio State team in many years, was second in drawing power. Some 90,000 persons saw Ohio State win 12 of 17 games last winter, tying for second place in the Big Ten and defeating such Eastern teams as Yale and Pennsylvania.

Nearly two-thirds of the 90,000 saw the 10 home contests. One of these games, that with Purdue, attracted 10,613 spectators. This is believed to be the largest crowd that ever witnessed a Western Conference game, and one of the largest to see any basketball game.

Baseball, chiefly by reason of a long schedule and the fact that Ohio State finished the season tied for the Big Ten Championship, was third in attracting patrons with the total attendance of nearly 50,000. About half of this was local patronage. None of the baseball contests drew more than 5000 spectators.

Track, wrestling, and tennis, as usual, played before slender crowds. The total attendance for the three probably would not exceed 15,000. Such sports as golf, cross country, and fencing and gymnastics as in other years and because of the nature of some of them, had little or no attendance.

V MISCELLANEOUS PROGRAM

1. The Ohio Relays

The past year saw the inauguration of the Ohio Relays, a carnival of track and field

events, which attracted to the campus approximately 100 high school, college, and university teams from all over the country. The event gives great promise of developing into a track classic for this section of the country.

2. The Harley Trophy

The Department co-operated with the Boost Ohio Committee in securing a beautiful trophy, which has been designated the Harley Award, honoring Charles W. Harley, Ohio's greatest all-time athlete. The trophy is awarded annually to the Columbus High School winning the football championship among the local high schools.

3. State High School Co-operation

The Department, in addition to furnishing suitable trophies, co-operated and placed at the disposal of the Ohio High School Athletic Association the facilities necessary in conducting the Ohio High School Track and Field Championships, Basketball Championships, and the Ohio High School Tennis Championships.

4. Local High School Co-operation

The Department, co-operating with the Columbus Public Schools, has placed at their disposal the Stadium for Field Day exercises and football games, as well as the Coliseum, where the local high school basketball championships are decided.

5. Local Amateur Sports

The Department serves as a sort of clearing house for local amateur sports, members of the Department addressing players and officials on playing rules and interpretations.

6. Service Bureau

The Department conducted a Service Bureau, which furnishes competent officials for high school and college games. This service was made without charge.

7. Speakers

Members of the Department made no less than 200 informal talks and addresses to high schools, college groups, noon-day luncheon clubs, and community gatherings.

8. Outside Professional Activities

That the members of the departmental staff are not without recognition beyond the local field is indicated by the important posts held by the following members of the staff:

- Professor St. John—Chairman, National Intercollegiate Basketball Rules Committee.
- Dr. Wilce—Secretary-treasurer, American Football Coaches' Association.
- Dr. Nichols—President, American Society of Physical Directors in Colleges.
- Mr. Trautman—Secretary, Western Conference Baseball Coaches' Association; member National Collegiate Athletic Association Committee.
- Mr. Ward—Chairman, Western Conference Intramural Directors' Association.
- Mr. Taylor—Chairman, Western Conference Association of Ticket Distributors.

9. Publications

A majority of the members of the departmental staff have contributed written articles for publication in several of the leading magazines and sport publications. "Football," by Dr. Wilce, published by Scribners, and "How to Enjoy Football," by Dr. Wilce and Mr. St. John, are two leading contributions written by members of the staff.

10. The Athletic Board

The Athletic Board has voluntarily taken a sympathetic attitude toward struggling campus enterprises and has aided them from time to time with facilities and money for the promotion of their activities. The Board has aided the Women's Athletic Association, Woman's Ohio, the Boost Ohio Committee, and homecoming celebrations and subsidizes to a generous degree the Department of Physical Education, thereby making possible facilities and equipment that rightfully should be provided by the University.

11. Student Books

The Athletic Board reaffirms its stand that athletic contests are conducted primarily for the student body and the faculty. In order that the opportunity to witness the Varsity contests may be placed within the reach of the majority, the Athletic Board offers for sale each year a student athletic book, which gives the members of the Faculty and student body an oppor-

tunity of seeing all Varsity games at a minimum cost. Last year, approximately 6000 books were disposed of at \$8.00 each, good for all of the 42 home contests, at an average cost of 18 cents a game.

VI FINANCIAL STATEMENTS

The question of what is done with the receipts from Varsity contests is answered in the following statements:

A. Treasurer Royer's report for year ending June 30, 1924:

Cash balance July 1, 1923..... \$ 677.13

Receipts.

Athletic Contests.....	\$343,238.42		
Notes	30,000.00		
Stadium Committee.....	10,551.00		
Sale Supplies.....	142.68		
Concessions	1,892.35		
Sale Books.....	512.39		
Sale Liberty Bonds.....	4,026.63		
Interest	436.67		
Sale of Co-op Stock.....	101.00		
Rents	103.35		
Cheer "O" Hats	562.25		
Coliseum	615.00		
Refunds:			
Band	\$400.00		
Women's A. A.	450.00		
Miscellaneous	129.07	979.07	393,160.81
			<u>\$393,837.94</u>

Expenditures:

Salaries	\$ 51,951.21		
Operating	33,802.43		
Athletic Contests	139,069.52		
General Equipment	2,726.52		
Coliseum	4,512.95		
Intramural	4,538.71		
Interest	30,424.82		
Notes	24,000.00		
Stadium Treasurer	600.00		
Stadium Committee	75,000.00		
Stadium Improvements	21,648.01		
Books	723.05	388,997.22	
			<u>\$ 4,840.72</u>

Balance June 30, 1924..... \$ 4,840.72

The following two reports are analyses of Treasurer Royer's report and present some interesting facts and figures:

B. Sports Report

Sport	Receipts	Expenditures	Loss	Net Profit
Football	\$275,723.72	\$102,302.75		\$177,420.97
Basketball	13,176.61	9,634.04		3,542.57
Track and Cross Country....	1,438.17	9,153.10	\$ 7,714.93	
Baseball	4,158.65	10,161.14	6,002.40	
Tennis	1,699.00	1,051.67		641.33
Wrestling	328.17	2,765.76	2,437.59	
Golf	8.00	480.49	472.49	
Gymnastics and fencing ...	108.50	1,251.00	1,142.50	
Rifle shooting		91.95	91.95	
Total.....	\$296,640.82	\$136,891.90	\$17,861.86	\$177,604.87

C. *Equipment Statement*

Sport	Equipment per Man	Men Outfitted	Total Cost
Football	\$44.15	200	\$8,830.00
Basketball	18.90	50	945.00
Track and Cross Country.....	16.75	100	1,675.00
Baseball	31.00	100	3,100.00
Tennis	3.00	20	60.00
Wrestling	12.00	30	360.00
Golf	5.00	10	50.00
Gymnastics and fencing	13.00	15	195.00
Rifle shooting	10.00	15	150.00
			<hr/> \$15,365.00

D. *Stadium Financial Report*

The Ohio Stadium, now virtually complete, represents an investment in round figures of \$1,700,000 and did not cost the State of Ohio or the University a dollar. It will be recalled that the original plans called for a Stadium much less adequate than the present structure and the Stadium campaign goal of \$1,000,000 was fixed with that in mind. When the time came to let the contract for the Stadium, the Stadium Committee determined to build for the future and authorized the construction of a Stadium whose cost eventually was nearly three quarters as much again as the original estimate.

Three football seasons have amply justified the wisdom of the decision to erect the greater Stadium. But to achieve that end, the Athletic Board, without any outside assistance, has had to advance the difference between the amount paid by subscribers into the Stadium fund and the total cost of the structure, a matter of nearly \$800,000. These advances have come out of football receipts and from loans from banks.

A brief financial statement follows:

Cost of Stadium.....	\$1,548,634.75
Cost of Stadium Campaign.....	94,000.00
Interest on Loans to June 30, 1924.....	50,223.44
Total Cost.....	<hr/> \$1,692,858.19
Met by:	
Payments into Stadium Fund.....	\$ 905,457.67
Loans from Columbus Banks.....	472,000.00
Paid from Athletic Receipts.....	315,400.52
	<hr/> \$1,692,858.19
Subscribed to Stadium Fund.....	\$1,084,000.00
Paid into Fund.....	905,457.67
	<hr/>
Outstanding.....	\$ 178,542.33

VII CONCLUSIONS

Intercollegiate athletics at Ohio State University and elsewhere seem destined for a future of increasing service and development. The continued organization of college conferences and associations, which make for a better understanding of common problems. These conferences aid to produce common ideals, common rules and regulations, put educational institutions on common ground, raise the caliber of standards and of leadership, and everlastingly continue to make a constructive and important contribution in the great field of education.

At Ohio State University, the student will continue to be our problem. The thing that is the best for him must outrank any other consideration. Continued increase in the enrollment at the University must be met with increased facilities and teaching staff. New activities must be introduced, activities that will make active participants out of a new disinterested minority. The Stadium indebtedness will keep in abeyance a proposed building program, but as fast as funds become available, there must be constructed:

1. A natatorium
2. A basketball auditorium
3. Additional tennis courts

4. Squash and hand ball courts
5. Baseball and soccer fields
6. Locker rooms and showers

The Department's activities have been stimulated by the splendid co-operation of a sympathetic faculty that has generally recognized intercollegiate athletics at their true worth and has given to them a credited place in the educational scheme.

ALUMNI RECORDER

(HENRY D. TAYLOR)

As Alumni Recorder, I beg to submit the following report of the activities and work of my office for the year 1923-1924: Appointed by the Board of Trustees under the title of Alumni Recorder and empowered by the Athletic Board to handle the sale and distribution of athletic tickets, it has been my duty to act in a dual capacity, namely, that of keeping the address records of alumni and former students and of building and operating a system of ticket sale in compliance with contracts made with alumni and others not connected with the University, both of whom contributed to the building of the Ohio Stadium.

The first detail necessary to start the year in an athletic way is the preparation and mailing of the annual "dope" sheet and application cards to alumni and other supporters of our athletic endeavors. The Department has purchased for the use of this office and that of the University News Bureau a completely equipped multigraph assembly, on which all of this advance literature is printed. This year a "run" of 254,000 impressions was required to get ready for mailing these cards and price lists. Seventy thousand cards were printed on both sides, 19,000 cards were printed on one side, 70,000 information sheets were prepared for alumni, Stadium contributors, and the general public, and 15,000 pamphlets for the faculty and student body.

From this office, notices were sent to all Stadium subscribers, all alumni and ex-students; and in addition, to all persons who purchased tickets for any or all football games played by Ohio State in the season of 1922. Furthermore, a different advice sheet was sent to all present members of the student, faculty, and administrative bodies, explaining new "wrinkles" for the season 1923-1924 and telling how, when, and where season books and single game reservations could be had. In all, more than 49,000 pieces of such mail were sent from this office. The postage alone cost more than \$1200 and the additional clerical force necessary brought the total expense of this mail to approximately \$2000.

I feel that few people really understand the system of ticket distribution evolved under the promises made to contributors to the Stadium fund, and I shall go somewhat into detail to explain. At the outset, let me set down a table of the promises made. Contributors were promised a preference of location of football seats over periods ranging from three to ten years, the number of seats which might be purchased in a preferred location varying with the amount subscribed.

Students and Faculty (Administrative Employees Included)

Contributors of \$ 25.00—2 seats for a period of 3 years
Contributors of 50.00—2 seats for a period of 5 years
Contributors of 100.00—2 seats for a period of 10 years
Contributors of 200.00—4 seats for a period of 10 years
Contributors of 1000.00—6 seats for a period of 10 years

Alumni and Non-Alumni (Ex-Students Included)

Contributors of less than \$200—2 seats for 10 years
Contributors of \$200 to \$1000—4 seats for 10 years
Contributors of \$1000 to \$5000—6 seats for 10 years
Contributors of \$5000 or over—A box of 8 seats or as many seats in a box as desired

With this table before us, it is necessary to trace the arrival and history of an application for tickets through the various processes to understand how such preference of seat location is determined. The first day on which applications are officially accepted after week of preparation therefor generally brings in anywhere from 1500 to 2500 individual orders, literally bushels of mail. Not knowing from whom they come, the envelopes are all opened, remittances compared and audited with the number of tickets ordered, checks or drafts separated, and the cards bearing the application detail passed on for the second process. Let us name the first case "John Doe." Having passed the cashier's approval, Mr. Doe's card goes to Searcher

No. 1, whose sole duty it is to compare the cards with the Stadium subscribers' index, an exact replica of the ledger cards of the original Stadium Committee. In passing, let me express my gratitude for the Kardex Visible Index supplied by the Athletic Department for the twofold purpose of speed and careful preservation of invaluable records.

If Doe's name is in the index, his card is marked No. 1 in the upper left hand corner and the amount of his subscription written in the upper right-hand corner, the latter bit of information to be used by the men filling his order later on as a key to the number of tickets to which he is entitled in the preferred section. In case his order is in excess of his rights in the preferred section, the filling "teams," as I shall call them hereafter, hold his card out until all regular orders have been filled and then give to him the best available seats adjoining those allotted to subscribers who have requested tickets within their just limitations.

If John Doe's name does not appear in the Subscribers' Index, he is assigned a number with the prefix "N," meaning non-subscriber, and his card filed with those other who are not contributors to the Stadium. Having been identified as a recipient or not of a favored location, his card is passed on to the third station or process. Here each order, with its number and name, is listed on a Daily Detail Order Sheet. This consists of a list of all applicants with the tickets ordered for different games appearing under the head of those games. Sample:

Wesleyan	Colgate	Iowa	Denison	Michigan	Illinois	Purdue
1. John Doe...	2	2	2	2	2	2

At the end of any day's business, these sheets are totaled, the value of tickets ordered thereon computed, and a balance declared with the cashier who opened the mail and audited the orders. The money so received is turned over to the treasurer of the Athletic Department daily and a receipt therefor obtained from him. When listing these orders on the detail sheet, a carbon copy of the sheet is made and passed to the fourth process, indexing. This index is filed alphabetically and contains every order received, so that any card needed at a later date can be located in a moment. The daily balance out of the way, all cards are filed numerically in two separate files—subscribers' and non-subscribers'—and remain thus until the filling teams take up the work of filling orders and mailing tickets. These audited and filed cards are in charge of one individual and reference to any card can be had only through him, thus preventing any juggling of card locations from the original numerical order and placing responsibility on one person for the preservation of these temporarily valuable cards.

Some few complimentary tickets have to be issued and these are taken from the original shipment of tickets before any orders are filled. With all the obstacles out of the way, then, the filling teams wind up the process by placing in the hands of the postal department the addressed and sealed envelopes containing allotment of tickets. Subscribers' cards, beginning at No. 1, are filled from beginning to end before any of the non-subscribers' applications are touched. Although many local supporters among the non-subscribers have ordered seats for every game on the schedule and some subscribers have ordered for but one game, the subscribers' orders are ALL filled before any of the others are considered.

The above recital may seem at first glance to be a simple matter of orderly business, but the following facts will serve to show the enormity of the detail that must be completed, not to mention the vain, I sometimes think, attempt to convince every man that he has been the recipient of fair treatment. For the season just closed (1923), we have received 12,591 applications for tickets. By that I mean we have a record and index file totaling that many cards. Each card has room on it for orders for the five home games and a compilation of individual game orders shows the total of 23,440. The index contains 12,591 cards, but the record clerk making the daily detail sheet has made 23,440 entries plus the names and numbers of the total number of applications. The cashier has balanced on 23,440 counts and the filling teams, consisting ordinarily of four men, (one who calls the order from the original card and enters the assignment on the reverse side, one who selects the tickets and reads the allotment to the caller, one who checks the number of tickets, and a fourth to see that the envelope is properly addressed and sealed), have read, selected, and "stuffed" 23,440 sets of tickets.

The total receipts of the Athletic Department for the year ending in June, 1924, was approximately \$394,000 and a few dollars less than \$300,000 of this amount passed through this office. Our peak day of mail and counter orders totaled a little more than \$22,000, of which \$16,000 in round figures was receipts from the sale of 2000 student and faculty season ticket books, and the balance of \$6000 represented mail orders. Our biggest day at the Stadium for any one game was \$18,257.50, being for tickets sold between 12:30 p.m. and 2:30 p.m. I mention these figures simply to show that this is not an idle spot and that with temporary help required by the fact of a short intensive campaign, it is vital that the person in charge must devote an unusual amount of personal attention to detail to see that his house is in order at all times.

The Stadium and the handling of the crowds that come to all athletic events fall within the category of the duties of this office, as well as the sale and distribution of tickets for all contests. Arrangements with Boy Scout officials have been made for the ushering, but aside from that, there are others who must be had for assistance. A capacity crowd at the Stadium means a force of approximately 1300 ushers, attendants, police, ticket sellers, and ticket takers. Due to the sell-out for the Michigan game this year (1924), it was necessary to open the gates of admission at 12:00 p. m., and, so that 850 Boy Scouts who left their homes as early as 10:30 a. m. could be ready for instruction and assignment at 11:30 a. m., we supplied their lunches. One hundred and fifty students to assist in directing people to their proper locations, 100 guards "borrowed" from Ft. Hayes, 110 Columbus police, 75 men to take tickets, and 60 student assistants were needed to handle the throng in a manner which brought many words of commendation. Such an occasion is extraordinary, but the regular force at the Stadium, one capable of caring for a crowd of 25,000 to 35,000, will amount close to 1000.

Basketball at the Coliseum, baseball, and a varied assortment of wrestling matches, track meets, gymnastic contests, and tennis matches also fall within the scope of this office. For the past year, the actual figures of attendance at all at-home athletic contests run pretty close to 250,000. A brief resume of this sort does not convey fully what has to be done in the way of such arrangements, but does give something of the advance thought and attempt at systematization necessary to prepare for such crowds.

Through the graces of the Athletic Department, it has been my pleasure and duty to attend several conferences, at which the subject of ticket distribution was the paramount issue. One of these was attended by all the ticket managers of the Western Conference universities and by Messrs. Stagg, Yost, Luehring, St. John, all Directors of Athletics at their respective schools. In conference we have studied all the ticket systems in use in the larger schools of the country and to the best of our abilities have applied the most equitable and satisfactory scheme to our methods. At one of these meetings was conceived the present method of handling student tickets, more than 6000 of which we sold this year. Personally, and partly because of our almost unlimited facilities, it is my opinion that the faculty and student body of Ohio State receive better treatment and more courteous attention than any school whose system it has been my privilege to examine.

I would be an ingrate indeed were I not to mention the wonderful help given me by all members of the Department in the way of advice, as well as in actual labor. I want to mention especially John Pryor, G. M. Trautman, and R. M. Royer, whose business advice is sound and comforting and whose willingness to be of physical aid is apparently infinite. To Messrs. Fred Jones and Chester McClintock, I am also deeply indebted for their supervision of the ushering at the Stadium.

ALUMNI RECORDS

This office was established in June, 1922, by the appointment of the undersigned as Recorder by the Board of Trustees. No assistance by way of funds for carrying on the work of the office or supply of clerical help was provided for at that time and although requests have been made for such, to date none has been furnished. The only source of help either by way of finance or clerical assistance has been through the generosity of the Athletic Department, this Department having supplied one full-time stenographer and having assumed such bills for postage and supplies as requested by the Recorder.

My inheritance consisted of two files of cards, one for graduates and ex-students arranged alphabetically and a similar file arranged geographically. This file of approximately 25,000 cards at that time, I believe, was the best list of such University folk in existence. The Stadium Committee was responsible for the construction of these records at an estimated cost of \$10,000. Compilers of address books of this nature estimate that by the time a volume is compiled, printed, and bound ready for distribution at least 6 per cent of the total addresses are useless, owing to the fact that young folks just out of college are prone to move about for from five to 10 years before they become stabilized enough to stay at any given spot for longer than nine months or a year. According to the records of the Universities of Yale, Harvard, Cornell, Michigan, and Illinois, any list of graduates and former students will average a 16 per cent change per year, so that at the end of a period of two or three years such a list is little more than worthless.

Practically the only way to follow up a list of addresses scattered over as wide a territory as this list lies in an occasional first-class mail canvass of the list, in order to secure from the post office all letters not delivered from want of proper direction. The only first-class mail going to all graduates and former students is, to the best of my knowledge, the football information pamphlet. This comes at a time when no one from the clerical force

of this office can take up the returned mail as it is returned and start a campaign against the bad addresses. There should be a full-time assistant who could take this mail as it is returned and begin immediately to correct wrong addresses, if the addresses of the alumni are of any value to the University.

In such time as has been available, this office has kept up changes in addresses secured from football application cards, the Alumni Monthly magazine and such other sources as have been of quick access. But no funds or help have been provided for a systematic drive to establish the list against all peradventure, and, what is more serious, no funds or help have been available to keep a constant tab on changes from such sources as fraternity lists, possible lists in the possession of the secretaries of the various colleges on the campus, communication with members of the same graduating classes or people in the same towns or cities to which the last mail was delivered, etc.

Although no actual count of the changes of addresses has been made, it is my firm belief that they amount up into the many thousands and doubtless many have been missed, due purely to lack of sufficient help and time. In short, you can very clearly read from the above recital of conditions that the present list, once a good one, is in grave danger of becoming obsolete unless something is done soon to correct the situation. All those who have graduated in the past two years have been entered on our files and some address is there for each person, but many of them have changed locations; and we have been unable to keep up with such changes, due to the above conditions. If the University places any value on who, what, and where the alumni are, some steps should be taken very shortly to place this file in the proper condition.

This file should consist of at least three distinct divisions; viz.:

1. An alphabetical card index of all graduates with names, year, degree, business, and best address.
2. A card file arranged by years of graduation, and subdivided alphabetically in this file, with year, degree, and address.
3. A stencil address file arranged geographically. The Athletic Department has supplied this office with an Elliot Addressograph equipment and several cabinets for the purpose of filing these stencils. More cabinets are needed and stencils should be made for every card in the files. We already have more than 12,500 such stencils in use.

Cornell, Michigan, Wisconsin, Yale, Harvard, Princeton and other schools have gone much further than the above suggestions and have provided means and equipment for keeping records of all worthy accomplishments made after the alumni have left the college atmosphere. Some day we shall possibly wish to do likewise, but I am requesting only what I consider absolutely necessary for the preservation of a valuable nucleus. The revivification of a dead file would be immensely more costly than the establishment of a systematic policy to keep and maintain what we already have and augment it as new graduates appear, as well as do some work on listing as far as possible former students who were never so fortunate as to secure their degrees. This latter piece of work has had to be abandoned in the attempt to keep up with the changes occurring in the ranks of the degree holders.

What do we need to make this office function properly?

1. A liberal appropriation of funds for equipment and expense for postage and printing. The equipment needed is an adequate, standard, and easily enlarged filing system. The Athletic Department has placed the Kardex system in the Stadium office and something of similar nature should be installed here. For graduates such a file as this would entail an outlay of less than \$2000. This should be augmented by additional filing cabinets for address stencils, costing approximately \$200, which with \$300 for cards and other incidentals in the way of additions to the present card files, purchase and cutting of additional stencils, etc., would, coupled with the acquisition of a visible index recommended above, cost in the neighborhood of \$2500.

The Athletic Department's annual information sheet mailed to about 49,000 people cost this year nearly \$2000, so I estimate that this Recorder's office should be given an outside budget figure of \$5000 for expense of operation. This expense would cover the cost of a hard campaign for right addresses over a period of one year and would make available to the University at such times as needed a ready and handy list in either of the three forms mentioned above: alphabetical, geographical, or ranked as graduates of the same year.

2. Two full-time assistants for a period of at least a year to straighten out present files and to make a concerted drive on "lost" or bad addresses. After these files are once in tip-top shape, and without adding anything to the above conception of what they ought to be, I believe one good conscientious assistant would be able to keep things in order, given such

occasional extra help as this Department would willingly supply at times of rush or unusual activity.

3. Mr. J. L. Morrill, the Secretary of the Ohio State University Association, has a card file of alumni and Mr. Hardy, in the University Mailing Department, has a mailing stencil collection of alumni and addresses; several of the different college secretaries maintain a list of graduates of their respective colleges and practically all of the fraternities and sororities have up-to-date lists of their members, all of whom are Ohio State men and women. With sufficient office personnel, co-operation of all these separate units could well be effected and a central place where all addresses are kept could be maintained with mutual benefit to all concerned. I am not recommending that this office be that central spot, but I am recommending the establishment of such a center in the spirit of helpfulness to the many, and economy of administration. I do feel that the present lists in my office could be made the nucleus and with the completion of the plans as suggested, would form an ideal clearing house for all such information and records. Whether I be retained as such officer is of no moment, but if these names and addresses are of any value to the University, economy and foresight demand that something be done soon to preserve them.

THE UNIVERSITY NEWS BUREAU

(JAMES E. POLLARD, Director)

Both the scope and the measure of the service rendered by the University News Bureau were enlarged during the year ending June 30, 1924. This result was achieved partly through the natural development of the Bureau and partly by design in the opening of new points of contact. It was also reflected in the increasing dependence placed upon the Bureau for information and news about the University, both on the part of various campus agencies and by the newspapers and press associations.

The activity of the Bureau was directed along the same general lines as in previous years. Its primary function was that of gathering and disseminating news and information about the University and its personnel through regular and special channels. The Bureau also served, as in the preceding year, as the successor of the now defunct Stadium office in collecting outstanding Stadium pledges and as a clearing house for Stadium records and information. The Bureau, through its editor, also co-operated with various campus agencies in various capacities.

I THE NEWS SERVICE

The production of news "stories" about the University and its personnel showed a marked increase over the previous year, both as to the number and diversity of "stories" written. These "stories" were distributed in a number of ways. As heretofore, the Bureau relied largely upon two news letters sent each week to newspapers and containing both news about the general University and sports "stories." One of these letters went to 125 Sunday newspapers and the other to some 200 daily newspapers for use on week days.

As occasion warranted the Bureau augmented this service with special "stories" to be given localities. In this connection, the Bureau continued to distribute localized "stories" on registration and on commencement. These stories, prepared at considerable extra expense, more than justify themselves and are practically certain to be used 100 per cent. As usual, too, where some other special opportunity presented itself or a specific request was received for a particular "story" of local interest, such news was prepared. The aim, as heretofore, was primarily to cultivate the Ohio newspapers and to arouse and maintain their interest in the University and their co-operation with the Bureau.

More use was made of the press associations than in the previous year. These associations severally serve all of the daily newspapers of the country. A special "story" prepared for one or more of these services invariably yielded heavy returns, thereby emphasizing the desirability of increasing these contacts.

The Bureau co-operated in a number of campus activities which warrant special mention. It aided in the preparation and dissemination of news concerning the annual Farmers' Week. It did likewise with the Educational Conference. It also played a modest role in connection with "Ohio State Day" and "University Day."

To bear out the statement that the daily press is coming more and more to rely upon the Bureau at least for certain kinds of information, the Columbus newspapers looked almost entirely to the Bureau for their "stories" concerning the three quarterly convocations and the June commencement.

A survey of the "stories" prepared and sent out by the Bureau during the year shows that while the Athletic Department continued to bear the entire expense of maintaining the Bureau, which serves the entire University, for every "story" relating to athletics prepared by the Bureau three went out dealing with some phase of general University activity. The file copy of the entire output of the Bureau for the year makes a volume weighing 10 pounds and containing 1391 "stories" totaling approximately 300,000 words.

The following table shows the distribution of the year's output:

General University News

Subject	No. of General Stories	No. of Special Stories	Total
Commencement	18	415	433
Registration	10	340	350
College of Education	19	40	59
Faculty	15	12	28
Honorary fraternities and other honors..	21	5	26
Students and student body.....	16	3	19
Alumni	15	1	16
President Thompson	8	7	15
Agricultural College	10	4	14
Commerce and Journalism	12	1	13
Physical Education	7	1	8
University Day	1	7	8
Engineering	6	0	6
Dramatics—Debating	5	0	5
Y. M. C. A.....	4	1	5
Traditions	3	0	3
College of Medicine	2	0	2
Graduate School	2	0	2
University Radio Station	3	0	3
Miscellaneous	44	8	52
Total.....	225	845	1070

Athletic News

Subject	No. of General Stories	No. of Special Stories	Total
Football	79	16	95
Basketball	41	23	64
Baseball	27	15	42
Track	17	14	31
Ohio Relays	16	12	28
Wrestling	16	2	18
Cross Country	9	0	9
Intramural	3	1	4
Miscellaneous	26	7	33
Total.....	234	90	324

II OTHER FUNCTIONS

Besides acting as a clearing house for information about the University, the News Bureau served many other campus agencies and organizations in various ways. At considerable expense and with the continued hearty co-operation of the University Registrar, it maintained a complete and well-indexed card file of the entire student body and the teaching and administrative personnel. This card file was used by a number of organizations and for many purposes.

The Bureau, as heretofore, placed its printing equipment at the disposal of other agencies on the campus. Besides doing its own work, the Bureau turned out 62 multigraph jobs for other agencies, totaling 300,000 copies. In like manner, 67 outside jobs were run on the mimeograph, aggregating 30,547 copies. In this fashion the Bureau served 21 other student and general University agencies.

The Bureau distributed 887 photographs gratis during the year chiefly to newspapers. Of these 249 related to general University subjects.

III CONCLUSIONS

Some idea of the general and special service rendered by the Bureau is supplied by the foregoing survey. From the increasing number of appeals to the Bureau, it is evident that it is in a position to give an increasingly large measure of service both to the newspapers and other periodicals and to the University.

That this service is appreciated is attested by a number of unsolicited letters commending the work, of which the following are examples.

Thus, Albert D. Groves of the Findlay Morning Republican writes: "The Ohio State News Service is a splendid one and I am always glad to receive the stories."

Robert E. Clark, business manager of the Big Ten Weekly, comments: "I want to take this opportunity of thanking you—for the exceedingly useful and interesting news service which we have received from you—I can truthfully say that there is no service that we have received here from which we gain as much valuable information as we have from your office."

Edgar T. Cutter, superintendent of the Central Division of the Associated Press, the most influential of the great press services, observes: "The material from Ohio State is some of the best we receive."

In this connection, it should be pointed out, moreover, that the Bureau is operating with the full-time services of only one man and one woman, covering the entire University, where most of the institutions with which it is, in a sense, competing, maintain separate establishments for general University publicity and athletic publicity and with a much more extensive personnel.

While there is no way of arriving at even a fairly definite figure, it is safe to say that newspaper space alone worth, at the usual advertising rates, several hundred thousand dollars was devoted to the University and its interests during the past year. A generous proportion of this was inspired and can be credited directly to the efforts of the Bureau. The year has been notable, too, for the increasing degree with which its aid and services have been enlisted on the campus. This increasing participation is greatly to be desired and should be encouraged.

The editor is grateful for the continued sympathetic co-operation of the administrative officers of the University, for the invaluable advice and assistance of the executive publicity committee with which he has been in regular contact through monthly conferences; and for the unqualified support of Athletic Director L. W. St. John and the Athletic Board, which has footed all the bills.

If justification for a report of this length is needed it is in the fact that this is the first time we have attempted to set forth in a comprehensive way the activities of the entire Department of Physical Education and its allied agencies. With the hope that such a comparatively full report may have a wide reading and thoughtful consideration it is hereby respectfully submitted.

L. W. ST. JOHN.

REPORT OF STUDENT-HEALTH SERVICE DEPARTMENT

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report of the Department of Student Health Service for the year ending June 30, 1924.

GENERAL HEALTH IN THE UNIVERSITY

This report will show a greater number of visits to this department; a larger number of individuals treated; more calls upon the doctors "for advice only," and fewer school-hours lost through preventable sickness, than in any preceding year in the history of this department.

That this was a remarkably healthy year in this University will be shown by the following statistics. They give a clear idea of the good health we enjoyed.

Sixteen thousand two hundred and sixty-eight visits were made to this department by 5572 different individuals, 4588 men and 984 women, with a recorded loss of only 9008 school-hours through sickness. The following brief table will be enlightening:

Year	Individuals	School-hours lost
1920-1921	3595	16268
1921-1922	4234	13778
1922-1923	5265	*18609
1923-1924	5572	9008

* (N.B.—Nearly 7000 of the school-hours lost during 1922-1923 were due to influenza, which, at present, is not considered a preventable disease.)

Without minimizing the favorable effect of climatologic and other health factors during the current academic year, we feel fully justified in the contention that our efforts to educate the students in health preservation and disease prevention, are reflected definitely in this year's record.

PROMOTING HEALTH AND PREVENTING SICKNESS

Ever since the establishment of this department in 1915, the keynote of our service has been *prevention*. Each year, the major part of our efforts are devoted to educating our students in "Health Care" and the early treatment of trivial ailments. The steady increase of interest along this line is shown by the following table:

Year	Office Visits	Calls for Advice Only
1920-1921	10923	516
1921-1922	13110	957
1922-1923	15258	1169
1923-1924	16117	1369

With respect to this important feature of our work, May was the banner month of the year—212 visits were made "for advice only," and 52 per cent of the remainder of our work in May was of a preventive or prophylactic nature, including: immunizations, vaccinations, inoculations, physical examinations, etc., etc.

PREVENTING EPIDEMICS

We believe it was only the prompt warning and advice of the President of this University, together with the active co-operation of the City Board of Health with this department and the attending physicians, that prevented at least one of the common communicable diseases from becoming epidemic in the University this year.

Early in October, one case of smallpox developed among our students, and in February, two cases of scarlet fever and one case of diphtheria appeared. In April, one case of scarlet fever, measles, and mumps occurred, and in the early part of May 15 cases of smallpox were reported in the northern part of the city. One of our students was of this group, and attended classes while suffering from this disease before being discovered.

In every case involving the health of the University community, this department has promptly taken the situation in hand, following up the cases most carefully. All students who were known to have been in contact with contagion were either immunized, quarantined, or kept under observation until all danger was past. We are therefore pleased to be able to report that no disease became epidemic in the University this year. Even influenza, which in the past has been our greatest epidemic disease, occurred only sporadically throughout the year.

OUR "HEALTH CARDS"

Our "Health Card System" of presenting information and advice in printed form at the "psychological moment" (around which most of our preventive work is built), is becoming more popular each year. It is proving an advance step over textbook and lecture method of Health-Education, and is attracting nation-wide attention. Quite a number of schools and colleges throughout this country are using these cards and during the year we have had requests for the privilege of using them from educational institutions in China, India, Canada, and Belgium.

MORE AND BETTER WORK

The addition to our staff, in the person of Dr. Richard Kimpton, formerly of the Department of Hygiene and Preventive Medicine at Cornell University, has enabled us to give more time and attention to personal conferences, increase the volume of our work, and make it more thorough in every respect.

DEPARTMENTAL CO-OPERATION

Again, this year, we are deeply indebted to the various colleges and departments in the University, for their hearty co-operation. The College of Medicine, (University Hospital) College of Dentistry, College of Pharmacy, Departments of Physical Education, Military Science, and Applied Optics are especially entitled to our acknowledgments. The State and City Departments of Health, and the city physicians, all contributed much to the success of our work. Co-operation in every possible way on the part of the entire teaching staff; janitors of buildings, and University employees, especially in the event of threatened epidemics, rendered our efforts much more effective than they otherwise might have been.

SUMMARY OF COMMUNICABLE DISEASES

ACUTE RESPIRATORY

As usual, the common communicable diseases were the chief cause of illness; those of the respiratory tract being the most numerous. Coryza,

pharyngitis, tracheitis and bronchitis furnished the greatest number of patients. We are pleased to report, however, that we had a decrease of 22 per cent in respiratory troubles, compared with the last previous report.

INFLUENZA

Only 78 cases of influenza were treated during the year, and these of a mild type. They occurred sporadically throughout the season; no epidemic prevailing. The virulence of this disease seems to be gradually diminishing, and gives rise to the hope that we may some day be entirely free from it.

VENEREAL

There seems to be a decided decrease of venereal disease in the University, only three cases of gonorrhea applying for advice and treatment. No syphilis reported. Inquiry among our city physicians strengthens the belief that these diseases are on the decrease among our young people.

MISCELLANEOUS

As stated elsewhere in this report, the few cases of scarlet fever, small-pox, diphtheria, and measles which occurred during the year, were prevented from spreading, by the prompt and effective co-operation of all concerned.

INJURIES AND OTHER AILMENTS

We regret to report an increase of 14 per cent of digestive disorders over last year, most of which, we believe, has been due to careless habits in eating, and improper selection of food. Education seems to be the only remedy, and we shall inaugurate another campaign of instruction in "Health Habits" at the opening of the Autumn Quarter.

MINOR SURGERY

Seventeen hundred and three surgical treatments and dressings were done during the year, an increase of 17½ per cent over last year. This increasing demand shows the importance of this branch of our work.

EMERGENCIES

We take pleasure in reporting complete absence of acute monoxide poisoning during the year. Three cases of drug poisoning received emergent treatment; many cases of severe acid burns came under our care, which, in two instances, involved the integrity of the sufferer's eyes. Other emergencies were: fractures, concussions, convulsions, acute appendicitis, renal colic, hemorrhages, incised wounds, lacerations, etc. No fatalities ensued. Good recoveries were made in all cases.

FIRST-AID CABINETS

Three additional departments were furnished with "First-aid Cabinets," and many which had previously been installed were replenished during the year. These cabinets are proving very valuable in emergencies.

IMMUNIZATION

This report will show that an unusually large number of students have this year, been immunized against typhoid fever, paratyphoid, fever and smallpox, which is taken as an indication of the effectiveness of our efforts in Health Education.

CLASSIFIED LIST OF DIFFERENT INDIVIDUALS APPLYING FOR
CONSULTATION OR TREATMENT

Freshmen	1919
Sophomores	1283
Juniors	846
Seniors	695
Graduate Students	101
Special Students	82
R. O. T. C. Special	127
Faculty Members	104
Employees	64
Total	5221
Grand total	5572
Visitors, for information, advice, and conference.....	351
Grand total	5572

NEEDS AND PROBLEMS

Nine hundred and eighty-four (nearly 1000) different women visited this department during the year, for treatment, advice, conference, etc., and the need for special rest-room and treatment-room for them was thoroughly emphasized.

The urgent need of a contagious hospital, or isolation quarters for students who have been exposed to, or are suffering from, contagious diseases, is as great as ever. We hope, when the new University Hospital is finished, some provision will be made for these patients.

CONDITIONS AND AILMENTS TREATED DURING 1923-1924

<i>General Diseases</i>		<i>Anemia</i>	
Influenza	78	Anemia, simple	4
Scarlet fever	3	<i>Neuralgia and Neuritis</i>	
Diphtheria	1	Neuralgia, facial	47
Measles	1	Neuralgia, intercostal.....	19
Smallpox	2	Neuritis	4
Tuberculosis	2	<i>Other Diseases of the Nervous System</i>	
Chickenpox	5	Neurosis, occupational	7
Mumps	4	Neurotic edema	3
<i>Forms of Mental Alienation</i>		Hysteria	4
Epilepsy	2	Neurasthenia	12
<i>Tumors</i>		<i>Diseases of the Ear</i>	
Lipoma	2	Cerumen, accumulation	114
Sebaceous cyst	7	Perichondritis	7
Dermoid cyst	1	Otitis media acute.....	64
<i>Rheumatism</i>		Mastoiditis	1
Acute articular	4	<i>Circulatory System, Heart</i>	
Lumbago	16	Aortic insufficiency	1
Torticollis	40	Mitral insufficiency	7
Pleurodynia	10	Mitral stenosis	1
Sciatica	2	Myocarditis	1
<i>Diseases of the Eye and Their Adnexa</i>		Acute dilation	2
Conjunctivities	105	Tachycardia	2
Blepharitis	3	<i>Veins</i>	
Chalazion	3	Hemorrhoids	17
Hordeolum	47	Varicocele	9
Iritis	2	Varix	2
Keratitis	2	<i>Hemorrhage</i>	
Eye strain	192	Epistaxis	16

CONDITIONS AND AILMENTS TREATED DURING 1923-1924—(Continued)

Lymphatic System

Adentitis, axillary.....	4
Adentitis, cervical.....	2
Adentitis, inguinal.....	10
Lymphangitis.....	5

Respiratory System

Rhinitis, acute coryza.....	915
Rhinitis, chronic.....	14
Laryngitis.....	95
Aphonia.....	9
Bronchitis.....	160
Tracheitis.....	293
Pleurisy.....	7
Asthma.....	8
Hay fever.....	2
Sinusitis.....	81

Thyroid

Thyroids, adolescent.....	24
Thyroid, toxic.....	1

Digestive System, Mouth, and Adnexa

Gingivitis.....	2
Stomatitis.....	7
Ulcer of mouth.....	41

Pharynx

Tonsillitis, acute.....	230
Tonsillitis, chronic.....	24
Tonsillar abscess.....	4
Pharyngitis.....	785
Nasopharyngitis.....	278
Vincent's angina.....	18

Stomach

Acute gastritis, mild.....	347
Acute gastritis, severe.....	30
Chronic gastritis.....	10
Unclassified.....	98

Intestinal

Enteritis, catarrhal.....	49
Indigestion.....	20
Food poisoning.....	38
Unclassified.....	13
Constipation, symptomatic.....	213
Constipation, chronic.....	24

Appendicitis

Appendicitis, acute.....	13
Appendicitis, chronic.....	2

Liver

Hepatitis.....	1
Jaundice.....	1
Hyperemia, mild.....	34

Kidneys

Nephritis.....	2
Renal calculus.....	2

Genito Urinary

Urethritis, specific.....	3
Urethritis, simple.....	2
Cystitis, acute.....	14
Orchitis.....	4
Phimosi.....	2
Prostatitis, acute.....	1
Seminal emissions.....	5

Uterus and Adnexa

Amenorrhoea.....	4
Dysmenorrhoea.....	72
Metorrhagia.....	2
Leukorrhoea.....	9

Diseases of the Skin and Cellular Tissue

Furunculosis.....	186
Carbuncle.....	17
Acute abscess, alveolar.....	16
Acute abscess, others.....	36
Cellulitis.....	25

Infections, other local

Arm.....	13
Ear.....	3
Eye.....	2
Face.....	17
Finger.....	58
Foot.....	55
Hand.....	17
Knee.....	70
Leg.....	13
Neck.....	5
Nose.....	5
Shoulder.....	2
Thumb.....	2
Toe.....	25

Other Diseases of the Skin

Acne.....	11
Alopecia areata.....	4
Clavus.....	37
Callosity.....	12
Dermatitis, simple.....	21
Dermatitis, venenata.....	36
Dermatitis, medicamentosa.....	28
Eczema.....	39
Erythema, simplex.....	12
Erythema, intertrigo.....	17
Erythema, multiform.....	2
Herpes simplex.....	30
Herpes zoster.....	5
Hyperidrosis.....	9

Other Diseases of the Skin and Adnexa

Ichthyosis.....	1
Pediculosis, Pubis.....	2
Impetigo contagiosa.....	58
Pityriasis.....	1
Pruritis, ani.....	1
Psoriasis.....	4
Scabies.....	46
Seborrhoea.....	2
Paronychia.....	13
Tinea circinata.....	22
Urticaria.....	16
Verruca.....	54

Nails

Ingrowing, toe nails.....	19
Onychosis.....	2

Joints

Arthritis.....	19
Synovitis.....	8
Bursitis.....	2

CONDITIONS AND AILMENTS TREATED DURING 1923-1924—(Continued)

<i>Muscles, Ligaments, etc.</i>		<i>Sprains—Continued</i>	
Myalgia, muscle strain.....	96	Knee	26
Ganglion	2	Neck	4
Tenosynovitis	12	Leg	24
<i>Affections produced by External Causes</i>		Side	11
Bites and Stings.....	15	Shoulder	30
Burns	100	Thumb	25
Wounds, abraded.....	231	Toe	2
Wounds, contused.....	229	Wrist	16
Wounds, incised.....	146	<i>Foreign Bodies Removed</i>	
Wounds, lacerated.....	22	Arm	4
Wounds, punctured.....	19	Ear	1
<i>Fractures</i>		Eye	76
Arm	1	Finger	10
Finger	1	Foot	4
Foot	2	Hand	6
Hand	1	Leg	1
Leg	3	Throat	1
Nose	5	Under nail.....	2
Ribs	2	<i>Unclassified or Ill-defined</i>	
Sternum	2	Concussion of brain.....	2
Thumb	1	Dental caries.....	35
Toe	2	Headache	132
Wrist	1	Hiccoughs	5
<i>Dislocations</i>		Insomnia	29
Arm	1	Impacted molar.....	19
Finger	7	Hypertension	11
Jaw	1	Hernia, inguinal.....	5
Shoulder	1	Obesity	4
Thumb	3	No diagnosis.....	109
Toe	1	Shock	39
Wrist	2	Toxemia	12
<i>Sprains</i>		Weak arches.....	53
Abdomen	2	*Prophylaxis, smallpox.....	424
Ankle	146	*Prophylaxis, typhoid.....	365
Arm	16	Prophylaxis, influenza.....	18
Back	21	Prophylaxis, tuberculosis.....	12
Chest	3	Prophylaxis, hay fever.....	1
Elbow	3	Surgical dressings.....	1703
Groin	8	Special eye examination.....	123
Finger	26	General medical examination.....	97
Foot	43	Urinalysis	102
Hand	16	Sputum analysis.....	24
Hip	4	Throat culture and miscellaneous smears..	71
		Wasserman	4

* Includes R. O. T. C. Vaccinations and Inoculations.

Respectfully submitted,

H. SHINDLE WINGERT, M. D.,
Director Student Health Service.

ANNUAL REPORT OF HOSTESS OF POMERENE HALL

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees, the annual report of the Hostess of Pomerene Hall for the year ending June 30, 1924.

The following reviews the activities of Pomerene Hall for the past year and will no doubt give you specific facts and figures on which to base a report of the work of the Women's Club House in Pomerene Hall. The figures, of course, will show the sum total of definite activities but do not give an adequate impression of the actual use of the service that Pomerene is rendering the women of the campus and the limited space available. This service can be truly known only to those who are here daily and see the many women lounging, waiting, and studying here hourly.

I take it that Pomerene or that portion of it given over to club activities is not intended merely nor primarily for social functions, but rather to furnish that convenient, attractive, and necessary place where the University woman may meet her friends, pass the time between study or in getting in closer touch with the life of the University. While the location of the building mitigates in a great measure against this important function, as it is far removed from the lodgings of the great mass of women students, it is interesting to find that they are coming to Pomerene in increasing numbers. One of the hardest things I have had to do this year has been to very frequently turn out the many earnest women studying at the tables provided for their use and those waiting between classes or enjoying the comfort and refinement of our beautiful rooms in order to prepare for some social or business function. The necessity of doing this, of course, will be obviated and provided for in the new building if equipped with permanent and exclusive study and waiting rooms, distinct from those used for social functions.

When I came here last October, I had faint idea of what was before me. I had definite ideas of what I expected to do. I found, however, no organization, no department, and quickly learned that in the estimation of the women students and even of those frequenters of the building other than the students, the position I had taken was regarded little above that of a housekeeper and carried no social nor authoritative rank. In my estimation it seemed that the most important thing to do was to establish the position on a systematic working basis and to make a department of it. That, together with the necessary housekeeping work arising from the fact that there was no helper in the department, has more than filled my time and taken all my energy, making it necessary to leave undone a number of things that I felt ought to have been done for the betterment of the work. It has taken more energy perhaps this year in getting the department established because of heedlessness and disregard on the part of students opposed to establishing regulations in the department. I think this has been particularly true because of the fact that previous to my tenure of office the department had four or five different heads in less than one year. I feel, however, that I have accomplished the principal things that I set out to do. My successor in this department, I am sure, will find the foundation well laid and may do some of the other work which I had supposed I was to do when I came.

If the Board of Control can secure a person who may and will remain in the office for longer than a year, the department will run much more smoothly.

To really fill its mission, Pomerene must have a larger staff. This past year my duties have kept me at Pomerene nine to 15 hours, six days a week, with but one evening a week to myself outside of my four business walls. This gives little opportunity for the hostess to make a place for herself in the University and she can do no more than the necessary housekeeping and clerical duties which completely fill her time and horizon.

The University of Chicago has a well functioning organization in its Women's Club House. While the University is not much larger, its building is three times the capacity of Pomerene. The director there has a staff of nine to do what is expected of the hostess here. There are two assistant hostesses, two private secretaries, a housekeeper, and four maids. This year at Pomerene we have served 45 different organizations with 20 to 30 sub-organizations of the three great activities here, Y. W. C. A., Women's Council, and W. A. A. At Chicago they served but 75 all told, so it is readily seen that what one woman here has been called upon to care for, five have done there.

With its present facilities, it is obvious that Pomerene cannot fulfill in full measure its mission, nor is there an opportunity for building up the department with the present small staff.

Believing that you are sincerely interested in the development of this work, I am taking the liberty of suggesting that one of the handicaps of Pomerene is the Board of Control as constituted at present. First, I feel that it should be a Board of *Advisers*, of which the director is a member. Second, that it should be more representative of the life of the campus. The majority influence on the Board should come from older women, women of experience, wide interests, especially women outside of this building.

Pomerene should be enlarged. The Women's Club House should be the social center of campus life. We cannot avoid recognizing the fact that it is the women of the campus who set the social standing of university life and all women's interest of the campus should be centered there. The limited space at the disposal of the department at present prohibits serving the University as it should be served. With three rooms at my disposal, it has taken a great deal of adjustment to accommodate 11 functions between 4 p. m. and 7:30 p. m. as I have been called upon to do this year. In order to do this it has been necessary to use rooms that were already occupied by women for study and rest.

It is my sincere hope that many of the things I could not do this past year, because of the chaotic condition of things at the beginning of my term, may be established next year in the present small quarters. But, to me, above all this year in the greatly increased use and activities of Pomerene—the work has trebled over last year—I have seen the crying need of larger and more adequate facilities for carrying on this most important university work.

Respectfully submitted,

HARRIET WELLS HOBLER.

ORGANIZATIONS

FIRST QUARTER

Alcyone
Agr. Extension
Agr. Faculty
Alcyone

Alcyone
American Hist. Assn.
Browning Dramatic Society
Browning Dramatic Society

Browning Dramatic Society
 Browning Dramatic Society
 Browning Dramatic Society
 Chimes
 College Woman's Club
 Chemistry Society
 Christian Science
 Columbus English Club
 Citizen Scouts
 Dean's Office
 Delphic Society
 Freshman Dramatic Club
 Girls' Glee Club
 Graduate Woman's Club
 German Department
 History Club
 Home Economics
 Harding Memorial Committee
 Joint Student Council
 Latin League
 Lutheran Club
 Mortar Board
 Mortar Board Alumnae
 Menorah

Newcomers' Club
 Nurses
 O. S. U. Alumnae
 Pi Mu Epsilon
 Pomerene Board
 Philosophy Club
 Panhellenic
 Pi Lambda Theta
 Phi Pi Epsilon
 Philomathean
 Phys. Ed. Dept. used by W. R. every day
 Religious Education
 Sigma Eta Chi
 Senior Class
 Sophomore Class
 Sociology
 Theta Sigma Phi
 University Woman's Club
 University Mother's Club
 University Grange
 University Professors
 W. A. A.
 Women's Council
 Woman's Ohio

Y. M. C. A.

Organization	40
Meetings	260
Evening	54
Day	206
Social	94
Business	166
Refreshments	94

ORGANIZATIONS

SECOND QUARTER

Agricultural Dept.	Graduate Woman's Club
Alcyone	German Club
Agricultural Circle	Graduate Club
Browning	Joint Student Council
Browning Alumnae	Kappa Phi
Chimes	Mortar Board
Citizen Scouts	Mortar Board Alumnae
Civil Engineering Dept.	Mechanical Engineers
Delphic	Men's Glee Club
Downing Club	Marion County Club
Economics Dept.	Nomads
Freshman Class	Newcomers' Club
French Club	Ohio State Alumnae

Y. W. C. A.

Refreshments	89
Evening	59
Social	105
Business	127
Organizations	45
Meetings	232
Evening	59
Day	173

ORGANIZATIONS

THIRD QUARTER

Agricultural Circle	Newcomers
Browning	O. S. U. Alumnae
Boys' and Girls' Club	Pomerene Board
Chimes	Panhellenic
Cadet Officers' Club	Phys. Ed. Dept.
Delphic	Philomathean
Dean Foster	Pi Lamda Theta
European History 410	Pi Mu Epsilon
Educational Conference	Parent-Teachers' Assn.
Freshman Class	Philosophy Club
French Club	Recreation Club
German Club	Republican Club
Graduate Club	Republican Club
Graduate Woman's Club	Starling Ohio
Home Economics Club	Spanish Club
History Club	Sociology
Joint Council	Sigma Alpha Sigma
Kappa Phi	Sigma Delta Phi
League of Women Voters	Sophomore Club
Mortar Board	Tech Ohio
Mortar Board Alumnae	W. A. A.
Nurses of University Hospital	Women's Council
	Woman's Ohio

Y. W. C. A.

Business	187
Social	86
Day	223
Evening	50
Refreshments	67
Organizations	45
Meetings	273

GRAND TOTALS

Meetings	765
Evening	163
Day	602
Social	285
Business	480

NUMBERS PRESENT AT SINGLE FUNCTIONS

Y. W. C. A. Luncheons and Religious Meetings, 100 to 125 once a week

W. A. A. Suppers, 250.

Teas, 80 to 500.

Three and four days in week 6 to 11 appointments from 4 to 7:30.

Dances average $1\frac{1}{2}$ a week.

Average daily attendance for rest, study, etc., 25 to 30 at almost any hour.

Will be more when study rooms which are not used for any other purpose are provided.

Activities about three times last year. Expect as much another year.

ANNUAL REPORT OF AUDITOR OF STUDENT ORGANIZATIONS

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report of the Auditor of Student Organizations for the year ending June 30, 1924.

The Student Organizations Department of The Ohio State University has audited during the past year the accounts of 96 organizations. These showed total receipts of \$120,455.73, an increase of \$9015.61 over the preceding year, and total expenses of \$116,290.57, leaving total balances in all accounts of \$12,024.40 as compared with balances of \$19,590.57 of 1922-1923.

More organizations participated in the auditing system this year than last and this department feels that the benefit derived has been greater than before. This is due in part to the natural growth of the department and the experience obtained during its two-and-a-half years of existence.

Information on financial methods of the past has been invaluable to present student managers in comparing and estimating income and expense. Itemized records of receipts and disbursements of all organizations are kept on file in the auditor's office and are available to any one desiring more detailed information than the printed report furnishes. These records have been used repeatedly.

The splendid co-operation of most of the organization treasurers has added greatly to the success of the system. The students have realized that the office is for their needs and have taken advantage of its facilities. They have learned to recognize it at its true value and have displayed willingness to co-operate which has simplified the work considerably.

Uniform bookkeeping forms which are purchased by the department have been used by all organizations. These forms meet all the necessary accounting requirements of such organizations. With one or two exceptions, all managers have bank accounts. Receipts have been written for all moneys received. These receipts have been verified and checked against the bank deposits. Bills have been submitted for disbursements and all payments have been made by check excepting in a few cases in which it proved impracticable to do so. Receipts and disbursements have been classified in order to show the exact source of income and the disposition of funds. All bills, canceled checks, used forms, check stubs, and records of audits are kept on file in the office of the auditor under the name of the organization to which they belong. They are available at all times. The time and number of audits made depended upon the need of each individual organization.

Three organizations show deficits for the past year. The Agricultural Student shows a deficit of \$121.83. The quality of the magazine was improved without increasing the subscription price. This can be seen very readily by comparing the expenditures for printing for the past two years. The Candle, a literary publication, has been selling for 10 cents per copy with a circulation of 1000 copies which is accountable for the deficit incurred. The Strollers have a deficit of \$1217.00. This is plainly due to mismanagement and the staging of a too costly production. In the past the Board of Directors of the Strollers had sole charge of all productions. In the future the Business Manager will

have a vote with the Board of Directors who authorize the expenditure of all moneys. This should enable him to keep a more careful check on all disbursements and to avoid further deficits. These deficits must be covered by profits of the coming year.

Your attention is called to the splendid reports of the Scarlet Mask Club, Men's Glee Club, Girls' Glee Club, Makio, Sun Dial, and the Y. W. C. A. These organizations have had successful years from the aesthetic as well as from the financial standpoint.

The balances accruing from most organizations are kept in permanent bank accounts in the names of the organizations. Some balances have been transferred to other accounts as the accompanying reports show.

The officers of the following organizations are remunerated for their services:

Agricultural Student—The Editor and the Business Manager divide the profits after paying the Sinking Fund 10 per cent.

Makio—The Editor and Business Manager divide the profits after the Makio Sinking Fund has been paid.

Men's Glee Club—The Business Manager receives the first \$100 of the profits and 25 per cent of all profits over \$100.

Ohio State Phoenix—The Editor and Business Manager receive a share of the profits as directed annually by the faculty adviser.

Sun Dial—The profits are divided equally among the Editor, the Business Manager, the Art Editor, and the Sinking Fund in the percentages of 35, 35, 15, and 15.

The total amount paid managers for services this year was \$4034.89. No woman's organization remunerates its officers.

Since July, 1923, the charges placed upon student organizations for auditing has maintained the office. This charge is based on the receipts of the organizations at the following rates: 2 per cent on all receipts less than \$1000, 1½ per cent on all receipts between \$1000 and \$5000, 1 per cent on all receipts between \$5000 and \$10,000, and ½ per cent on all receipts over \$10,000. Some organizations have not been able to pay for this service at this time because of lack of funds. In these cases, the assessments have been made with the understanding that they will be paid in the future. A detailed account of the income derived from the supervision of accounts will be found in the Student Organizations report on page 79.

The increase in the amount of work to be done due to the development of the auditing system will necessitate the aid of an assistant in the department in the future. An increase in the charge for auditing will have to be made unless the University provides for the added expense.

The following resolution of the Board of Trustees of The Ohio State University which authorized the establishing of the auditing system shows the exact scope of the work done by the department:

Be It Resolved, That: For the purpose of establishing a uniform system of accounting among student organizations of the University, and of providing for a full and complete report upon contracts, receipts, and expenditures, and for an official audit of all books and accounts of such organizations, the President of the University is hereby authorized and directed to prepare the necessary regulations, and to secure the necessary personnel, in order to carry out the above purposes, and the President is hereby authorized to distribute the cost of this service proportionately upon the organizations served:

Be It Further Resolved, and this resolution go into effect at once, that said regulations shall be made applicable to such organizations as the President may from time to time designate.

RULES AND REGULATIONS PRESCRIBED BY THE PRESIDENT OF THE UNIVERSITY

The President of the University has prescribed the following rules for the purpose of establishing a uniform system of accounting among student organizations of the University, and of providing for a full and complete report upon contracts, receipts, and expenditures, and for an official audit of all books and accounts of said organizations.

Said rules shall be complied with by such organizations as the President of the University shall designate.

All books, records, blanks, and tickets shall be secured from the Auditor of Student Organizations of the University. These records will be supplied to the organizations at cost.

The Treasurer shall enter promptly all items in the proper records; all entries to be made in ink and according to the following procedure:

BUDGET

Each organization is required to submit in duplicate a budget for the fiscal year. This budget shall contain an itemized list of estimated receipts and expenditures and shall be signed by the President and Treasurer of the organization. After approval one copy will be returned to the organization.

A record of all actual receipts and expenditures will be kept so that the estimated budget will not be exceeded.

RECEIPTS

The Official Receipt must be given for all moneys received.

The Treasurer shall deposit promptly all moneys to the credit of the organization and under its official name in some local bank.

Each receipt must be entered in the Record of Cash Receipts.

EXPENDITURES

No contracts shall be entered into or purchases of any kind made except upon official order blank.

All bills shall be paid by check. Bills should be numbered corresponding to check and filed. The Treasurer shall draw his check only in payment of bills properly approved.

All checks must be entered in the Record of Disbursements.

TICKETS

All tickets for dances, entertainments, or meetings of any kind where an admission fee is to be charged, shall be secured from the Auditor of Student Organizations, who shall keep an accounting of the same. The ticket takers will be supplied by the University.

ADVERTISING CONTRACTS

Advertising contracts shall be made only on the official form furnished by the University.

LEDGER

A ledger account should be set up for each member of the organization. Each member should be debited with the annual dues or any assessments decided upon by the organization.

Advertising contracts should be debited to the proper account in the ledger.

Each receipt should be credited to the proper account in the ledger.

AUDIT

All books and vouchers shall be submitted to the Auditor of Student Organizations at least twice each year and more frequently if requested. When the Treasurer is notified by the Auditor of Student Organizations that an audit is required, he should:

1. Have Bank Book balanced.
2. Make all entries to date.
3. Send to the Auditor of Student Organizations
 - a. Bank Book and canceled checks.
 - b. Receipt Books.
 - c. Approved Bills.

- d. Order Books.
e. Advertising Contracts.
f. Ledger Accounts.
g. Record of Receipts and Disbursements.

Respectfully submitted,

EDITH M. AUCH,
Auditor of Student Organizations.

STUDENT ORGANIZATIONS—THE OHIO STATE UNIVERSITY—1923-1924

Organizations	Total Receipts 1923-1924	Total Disbursements 1923-1924	Balance or deficit on year	Balance or deficit beginning of year	Balance or deficit end of year
1. Agricultural Student*.....	\$ 4,542.14	\$ 4,663.97	\$ —121.83		\$ —121.83
2. All-Agricultural Council	126.00	136.97	—10.97	\$ 53.20	42.23
3. Alpha Psi Delta	60.00	8.10	51.90	51.65	103.55
4. American Institute of Elec- trical Engineers	84.15	40.48	43.67	4.45	48.12
5. American Institute of Min- ing Engineers	11.62	8.45	3.17	5.05	8.22
6. American Legion	615.30	423.22	192.08	64.43	256.51
7. American Society of Agri- cultural Engineers	305.22	320.13	—14.91	87.14	72.23
8. Boost Ohio	3,346.24	3,398.28	—52.04	299.04	247.00
9. Browning Dramatic Society..	1,047.11	1,269.56	—222.45	290.37	67.92
10. Bucket and Dipper.....	227.30	201.10	26.20		26.20
11. Cadet Officers' Club	753.12	779.58	—26.46	37.53	11.07
12. The Candle*	1,438.40	1,534.28	—95.88	37.00	—58.88
13. Chimes	420.97	453.48	—31.51	102.46	69.95
14. Cincinnati Club				7.05	7.05
15. Class of 1925.....	15.16		15.16		15.16
16. Class of 1926.....	237.64	79.50	158.14		158.14
17. College of Commerce Stu- dent Council	453.10	450.87	2.23	.22	2.45
18. Commencement Invitations Committee	2,281.80	2,281.80			
19. Delphic Literary Society ...	36.60	31.66	4.94	.96	5.90
20. Delta Sigma Rho	116.64	116.90	—26	.26	
21. Deutscher Verein	13.00	13.00			
22. Engineers' Council	297.51	359.00	—61.49	63.60	2.11
23. Episcopal Club	104.54	113.00	—8.46	15.65	7.19
24. Eta Kappa Nu	624.75	606.21	18.54	17.07	35.61
25. Forum	39.00	46.00	—7.00	7.08	.08
26. French Club	206.85	194.41	12.44	32.70	45.14
27. Freshman Get-acquainted Party	228.50	150.85	77.65		77.65
28. Freshman Girls	112.35	76.25	36.10		36.10
29. Freshman Girls' Glee Club...	38.70	32.45	6.25		6.25
30. Freshman Girls' Play	121.10	112.17	8.93		8.93
31. Girls' Glee Club	715.35	576.23	139.12	14.44	153.56
32. Graduate Students' Organizations	92.00	88.30	3.70		3.70
33. Graduate Women's Club ...	107.14	90.87	16.27	.81	17.08
34. History Club	83.00	89.62	—6.62	18.35	11.73
35. Home Economics Club	421.94	159.25	262.69	93.03	355.72
36. Horticultural Society	445.86	498.84	—52.98	54.61	1.63
37. Junior Activity Banquet ...	51.50	51.15	.35		.35
38. Junior Prom	2,080.00	2,064.84	15.16		15.16
39. Kappa Phi	1,335.84	1,356.65	—20.81	82.73	61.92
40. Kappa Phi Savings Account..	40.99	48.96	—7.97	7.97	

* This data is based on income and expense in lieu of receipts and disbursements.

Organizations	Total Receipts 1923-1924	Total Disbursements 1923-1924	Balance or deficit on year	Balance or deficit beginning of year	Balance or deficit end of year
41. Latin League	41.00	35.37	5.63	.28	5.91
42. Loan Fund of Women's Council	924.42	1,051.75	-127.32	830.39	703.07
43. 1924 Makio*	29,913.16	27,272.73	2,640.43		2,640.43
44. Makio Sinking Fund	701.79		701.79		701.79
45. Memorial Committee— Senior Class	945.00	899.87	45.13		45.13
46. Men's and Women's Council Dances	403.00	322.50	80.50		80.50
47. Men's Glee Club	1,867.21	1,751.10	116.11	20.00	136.11
48. Men's Panhellenic Council Dance	\$ 218.20	\$ 216.73	\$ 1.47		\$ 1.47
49. Men's Student Council	2,204.19	2,286.82	-82.63	\$ 373.84	291.21
50. Mortar Board	252.10	313.07	-60.97	92.96	31.99
51. Natural History Club	96.30	93.11	3.19	7.65	10.84
52. Newman Club	64.10	36.50	27.60	2.33	29.93
53. Ohio State Engineer*	1,811.89	1,828.32	-16.93	65.04	48.11
54. Ohio State Phoenix	1,420.28	1,287.37	132.91		132.91
55. Ohio State University Orchestra	188.95	188.38	.57	38.33	38.90
56. Ohio State University Pan- hellenic Association	724.86	917.97	-193.11	221.90	28.79
57. Ohio State University Phar- maceutical Association	89.70	108.76	-19.06	39.60	20.54
58. Orton Geological Society .....	.87		.87	20.80	21.67
59. Oxley Hall	104.61	84.60	20.01	25.82	45.83
60. Pen and Brush Club.....	63.36	24.57	38.79	1.80	40.59
61. Phi Delta Kappa	669.35	615.61	53.84	53.01	106.85
62. Philomathean Literary Society	33.00	30.87	2.13	9.51	11.64
63. Philosophy Club	12.20	12.13	.07	4.46	4.53
64. Pi Delta Epsilon	426.00	409.02	16.98	21.51	38.49
65. Pi Lambda Theta	620.80	447.45	173.35	36.57	209.92
66. Pi Tau Pi Sigma.....	175.50	173.98	1.52		1.52
67. Pistol Club of Ohio State University	42.09	33.88	8.21	5.50	13.71
68. Political Science Club	24.00	24.00		.75	.75
69. Progressive Dairy Club	211.25	249.70	-38.45	81.16	42.71
70. Psychology Club				1.78	1.78
71. Saddle and Sirlon Club.....	325.80	334.79	-8.99	91.06	82.07
72. Scabbard and Blade	616.45	894.70	-278.25	304.37	26.12
73. Scarlet Mask Club	15,042.47	14,260.85	781.62	435.46	1,217.08
74. Senior Prom	1,088.89	1,088.89			
75. Senior Ring Committee— Senior Class	32.47	32.47			
76. Sigma Delta Chi.....	588.88	650.73	-61.85	70.51	8.66
77. Sigma Delta Phi	151.50	122.48	29.02	8.79	37.81
78. Sigma Eta Chi	81.00	90.05	-9.05	37.31	28.26
79. Sophomore Activity Banquet..	67.50	67.50			
80. Sophomore Football Dance	446.00	208.36	237.64		237.64
81. Sophomore Girls	70.48	16.19	54.29		54.29
82. Sphinx Society	175.00	193.35	-18.35	49.88	31.53
83. Strollers*	5,031.34	7,178.78	-2,147.44	930.44	-1,217.00
84. Student Chemical Society....	22.50	36.75	-14.25	20.29	6.04
85. Student Organizations	1,606.50	1,764.64	-158.14	986.99	828.85
86. Sun Dial*	10,576.93	9,113.30	1,463.63		1,463.63
87. Tau Lambda	211.00	291.44	-80.44	96.52	16.08
88. Theta Sigma Phi	518.45	456.79	61.66	7.02	68.68
89. Townshend Agricultural Society	95.60	85.58	10.02	80.73	90.75
90. Woman's Ohio	160.75	84.96	75.79	22.06	97.85

Organizations	Total Receipts 1923-1924	Total Disbursements 1923-1924	Balance or deficit on year	Balance or deficit beginning of year	Balance or deficit end of year
91. Women's Athletic Association	639.45	603.67	35.78	8.11	43.89
92. Women's Council	3,184.42	3,294.42	—110.00	921.94	811.94
93. Women's Panhellenic Ass'n...	273.50	170.19	103.31	70.58	173.89
94. Women's Panhellenic Council Dance	226.50	197.00	29.50		29.50
95. Y. M. C. A.	6,849.22	6,830.96	18.26	152.31	170.57
96 Y W. C. A.	4,845.51	4,578.79	266.72	160.93	427.65
Totals	\$120,455.73	\$116,290.57	\$ 4,165.16	\$ 7,859.04	\$ 12,024.20

REPORT OF UNIVERSITY LIBRARIAN

PRESIDENT W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report of the University Librarian for the year ending June 30, 1924.

It is with the thought that the University Faculty is especially interested in the situation pertaining to the book appropriations that this report is confined very largely to a statement to the way in which the \$100,000 has been divided and of the way in which it is being spent.

It is probably not generally known that, in addition to the \$100,000 for the biennium appropriated by the Legislature for books, \$2800 for books the first year and \$2800 the second year were included in the finance bill in division E8—Education—Equipment—Replacement. Since the \$100,000 was available at once, there was on July 1 a legislative appropriation of \$102,800. There had also been carried forward on the books of the Secretary of the Board of Trustees the amount of \$2832.99 from the preceding year. This amount represented outstanding orders which had not been filled at the close of the last fiscal year. Accordingly, on the books in the Secretary's office the Library had an account of \$105,632.99 against which bills could immediately be charged. It is the policy of the office to close out small appropriations as rapidly as possible and the first bills sent in from the Library were used to wipe out the cash balance carried forward and the replacement fund. No attention was paid in the office as to whether these bills theoretically belonged to these funds or not. They were Library bills and could be charged against the Library fund. In the Accession Department of the Library, in addition to the account with the appropriation as a whole, our accounts are kept of funds and of division of funds. Taking the account of the Library with the appropriation as a whole the records show that we have sent to the Secretary's office from July 1 to May 28 bills amounting to \$39,996.16. One thousand nine hundred and sixty-one dollars of this represents the estimated amount of foreign bills which have not yet been paid by the office. When they are paid the Library will be notified of the exact amount of the exchange. This leaves an approximate cash balance of \$65,630.00. This is by no means a free balance, since requisitions have been placed in the Secretary's office amounting to \$73,192.99. I am glad to present such a report from the Accession Department

which as you all know has been undermanned. Under existing conditions it has been impossible to follow up "shorts" and to give time to intensive research for the hard and rare things. However, there is now relief, one expert bibliographer having been added to the staff of the department and another assistant being expected by the first of the year. This will make it possible to carry the work to good advantage.

As has been said the accounts of the Library (in addition to the account with the appropriation as a whole) are kept according to the divisions made by the Library Council. On July 2 the Library Council assigned to the departments for the biennium \$39,575. For periodicals \$18,000, for a fill in fund \$8000, and the Graduate Council was allowed to recommend purchases up to the amount of \$20,000. This left unassigned \$14,425. Since that time the Council, through the Librarian and the Executive Committee, has authorized purchases to the amount of \$8,243.00.

The departments have in some instances sent orders completely covering their appropriations. The larger number have not done so and in not a few instances the number of orders has been so small that they are almost negligible. A few have sent in none. It is not the feeling of the Library that there should be any criticism of the departments which have not been actively expending this appropriation. In some departments there have been very valid reasons why the department wished to postpone purchases. In other instances—well, it has always been well known in the Library that pressure was needed to bring in orders for books. This pressure has not been applied during the present year. If all departments had sent orders covering their total appropriations it would have been utterly impossible for the Library to have handled them. As it is, there are a number of order cards untouched which have been in the Library for some time. At this time, however, I must call your attention to the fact that now the departments should bring in their orders as rapidly as they possibly can. In accordance with the action of the Library Council, of which action the departments were duly notified, any uncovered balance remaining in these department appropriations on November 1, 1924 will revert to the general fund and orders will be immediately placed covering the total amount. This action of the Council was taken because of the necessity of being able to say to the Legislature when the finance bill is under consideration that the University has completely covered the \$100,000 given by the last Legislature. It will be seen that departments which have large balances should do most of their book ordering during the summer since there will be only one month of the Fall Quarter open for such work. There remains of the \$100,000 approximately \$6000 not yet assigned, and there are in the Library requests which would undoubtedly cover a whole new appropriation of \$100,000. It is the feeling of President Thompson that the Library should use this large number of requests for a basis for purchase and should at once order the works which are immediately available. In other words advantage should be taken of buying a set or a valuable work at the very minute the opportunity knocks at our door. It may not be true in the book world that "opportunity knocks but once" although that is rapidly becoming the case. But is undoubtedly true that when the second opportunity comes it carries with it a much larger price.

A case in point is that of the Library of Congress catalog. During the Library days in Orton Hall there was not room for this remarkable catalog so it was useless to make a request that the Ohio State University be made a de-

pository. It was one of the things looked forward to when the Library moved into the new building. However, the Executive Committee of the Library Council at that time decided definitely against the catalog because of the amount of money required for equipment and for upkeep. Accordingly, the dream of the Library had to be given up. At that time the depository catalog could have been secured free of charge in so far as the cards were concerned. During these last eight or 10 years it has seemed that every other important institution of learning in the country secured the catalog. In the list of those having it the name of Ohio State University was conspicuous by its absence. Recently there has been such a demand for the catalog that the apportionment committee of last year, in providing for the distribution of the equipment fund, assigned approximately \$2500 for the purchase of catalog drawers, taking it for granted that there would be no question but that we could secure the catalog. It was useless to ask for the catalog until there could be some assurance that it could be made available for the public. Indeed, in securing it an agreement has to be entered into with the Library of Congress, solemnly signed by the Librarian, that the catalog will be absolutely kept up to date and will be made available for public use. During the fall assurance was given that there would be a sufficient amount of assistance to take care of the catalog if we could secure it, so the matter was presented to the Library of Congress. A formal request was made that the Ohio State University be made a depository for these catalog cards. I quote from the letter received from Mr. Putnam, Librarian of Congress, in response to this request. "We should of course like to supply you with a set, and, so far as future issues are concerned, we shall be quite ready to put your Library on our list for them. The extraction of a complete set of the cards from stock is, however, with the pressure upon the Division, quite beyond our abilities:—the expense of it beyond the possibility of our present appropriation. We are quite ready to present the cards themselves, but what we cannot now any longer undertake is the expense of getting them out of stock. Mr. Hastings estimates this as pretty nearly \$1000 and we are quite clear that any library hereafter desiring to be added to the list of depositories will have to meet it." Fortunately the University Library has the \$1000 and it was immediately forwarded to the Library of Congress, so the cards have begun to come to us. We are hoping with the extra student help, which must be provided by the apportionment committee, to get the catalog in shape during the summer and fall. It is no small matter to alphabetize one million cards. Indeed, the Library of Congress estimates the cost of alphabetizing the present collection at \$2237.50. The point, however, that I wish to make here is that we have had to pay for not having been able to take advantage of opportunity when it first came. Accordingly, the recommendation of the President that the \$6000 dollars now unassigned be used for taking advantage of opportunities as they arrive seems eminently sound.

The last number recorded in the Library accession book at noon today was 246,755, showing an addition of 10,908 volumes since July 1, 1923. This, of course, does not represent the total resources of the Library. Many of the books ordered this year have not yet been accessioned and thousands of volumes are still waiting to be bound.

The number of books which have been bound during the present year at the University Bindery is 2151. The number of volumes to be bound is approximately 10,000, a low estimate. Some departments are already giving

to the Library statements of what they consider their vital needs for the coming biennium. These are not in the form of definite titles, but give the amount of money needed for certain lines of work. The Library will be very glad to receive such statements which will, of course, be put in the hands of the President at the time he is considering the making of the legislative budget.

Respectfully submitted,

OLIVE JONES, *Librarian.*

ANNUAL REPORT OF THE OHIO STATE UNIVERSITY Y. M. C. A.

PRESIDENT W. O. THOMPSON, *The Ohio State University:*

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report of the Secretary of the Y. M. C. A. for the year ending June 30, 1924.

For the first time since the war years we find ourselves in a favorable position to expand our work. As a result of the careful planning and preliminary work of the past year we are ready to undertake an increased program beginning at once. In reaching this point of vantage we have been greatly aided by the Community Fund Subsidy and increased support from the student body. On the other hand we have had no unusual expenses and have been able to keep within our budget limits.

Perhaps the best way to give a resume of the work of the past year will be to take the events in their order of occurrence. Seventeen of our men attended the Lake Geneva Student Conference, the largest delegation we have had. The summer quarter was somewhat broken up by the fact that we had no one to take charge of the office in the absence of the Secretary, who spent more than the usual amount of time away from the city on account of the Student Secretaries' National Assembly at Estes Park (3 weeks) and an emergency call to work with the National Guard at Camp Perry (one week). However, we were able to settle down to steady going by September 1, and to begin preparations for the influx of new students. The fact that we sent 2200 letters out during this month draws attention to the fact that we have sent out 5574 pieces of first-class mail during the last year.

The first week of the Fall Quarter, known as "Know Ohio Week," was devoted almost entirely to helping the freshmen get acquainted with each other and with the traditions of the University. We had a capacity crowd at the "Y" reception and 450 at the Stag Bonfire.

The membership campaign was put on with the aid of the Boost Ohio Committee. The membership was approximately the same as last year—1400. The membership fees are larger by about \$200, being slightly more than \$1900.

During this week we had a banquet in celebration of our Fortieth Anniversary at which Charles D. Hurrey of the W. S. C. F. was the principal speaker. The day following, Dr. G. S. Lackland of Denver spoke to two groups of engineers totaling 600. Then came the "Y" Warmer of October 26, with an attendance of 1500, larger than ever before. Contributions from parents came in at about this time and alumni contributions a little later. The amount received from both sources was \$508.50.

A series of five meetings for "pledge managers" was held and 22 organizations were represented in the attendance. During the Winter Quarter

16 discussion groups were organized in fraternities and clubs, mostly under faculty leadership. For this a series of topics and questions selected by the committee itself was used.

The Day of Prayer for Students was observed by a joint meeting with the Y. W. C. A. at which Professor Lumley and Dr. Alvah W. Taylor were the speakers. The beautiful Christmas service, which has become an established tradition, was held on December 17, and a group of 800 saw a symbolic play in the Chapel, later joining in the singing of carols at the "Christmas Tree" and still later, at the President's home where he then lay ill.

Fifty-three delegates, 33 of whom were men, represented us at the Student Volunteer Convention, one of the largest groups from any University. Coming only once in each college generation the Convention is always a source of inspiration to those who attend.

The "Y" Mixer had an attendance of 1500 and was up to the usual standard. Immediately following was the Life-Work Conference under the direction of R. A. Waite of Chicago. Confronted with the worst weather of the winter the attendance was small. However, a good spirit prevailed and the effort was worth while. The Fifth Prague Campaign, which is to be the last, brought cash and pledges of slightly over \$1000. It is our hope that we may next year combine our local and foreign work campaigns and give whatever we may raise for the second to the general work of the association rather than a definite project.

The most interesting feature of the work with the foreign students this year has been the forming of an International Student Forum which met weekly for eight weeks. A most interesting series of discussions has been held. The Allen Hoskins Memorial Fund has been drawn upon for several loans during the year and we have had several letters of appreciation from those whom it benefited. While on the subject of loans we might add that although we have no loan fund ourselves, we have made eleven short-time loans to the students this year totaling \$160. As a measure of student honesty it is of interest to add that in five years we have lost exactly \$2.

The Employment Service has given out jobs totaling \$42,100, which indicates the value of its work. For the Summer Quarter it is our intention to put on the most ambitious program we have ever tried at this time of year. The spirit of the regular school year is very much lacking during the summer and it is our hope to make the quarter much more attractive, not only from a social standpoint, but from any other angle.

As usual we have obtained rooms for 75 per cent of the out-of-town students, have co-operated with the Student Council and Boost Ohio Committee in various projects during the year and as a result are closely in touch with the student governing bodies.

We have only space to mention the Mother's Day service at which the President spoke to more than 700 students and parents; the Freshman Council, with a membership of 35, meeting every week to do what they can to create a fine spirit in their class; our co-operation with the Educational Conference, etc. Our men are still visiting sick students, "Big-brothering" Juvenile Court boys, leading boys' clubs, and serving where they can. We are now signing up 450 upperclassmen to act as advisers to twice that number of out-of-town freshmen next fall. This will be about 50 more than last year. Each day men are coming in for advice and help on every conceivable question.

So much for the details of our work of the year. The splendid co-operation we have had from Mr. Stewart, who came into the work on such short notice, has been all we could ask. Miss Smith has given us loyal support in the office and we have enjoyed a year of fine relationships with our student president and an excellent group of cabinet men. Our President said in his annual report, "the members of the Advisory Board are keenly interested in our work and are willing to co-operate in any way with the cabinet for the welfare of the organization." That is exactly true.

We have in the President of the University a man who is never too busy to discuss matters affecting the student body, and whose faith in the integrity of the average student is unvarying. Such an attitude is most encouraging to an organization which exists to conserve and stimulate this and similar qualities.

As we noted at the beginning of our report we have had much to be grateful for in the past year and may look forward to even better things in the year to come. With 5000 of the finest young men of Ohio here to serve and be served, if we are to make "Jesus and His ideals real in the lives of men," we cannot but think in large terms. On the other hand we must not rely upon material results to too large an extent, for we build with material not always visible but nevertheless eternal.

Respectfully submitted,

J. A. PARK, *Secretary.*

SUMMARY OF THE FINANCIAL STATEMENT

For the Year Ending June 30, 1924.

(A complete detailed financial report for the fiscal year ending June 30, 1924, is printed in separate form and may be had upon application.)

Columbus, Ohio, July 12, 1924.

The financial statement presented herein is that part of the Annual Report of the Board of Trustees to the Governor of Ohio, which shows the financial condition of The Ohio State University for the fiscal year ended June 30, 1924.

CARL E. STEEB, *Secretary.*

CONSOLIDATED STATEMENT

INCOME AND EXPENDITURES

Description	Items	Total
Cash Balance July 1, 1923.....		\$ 228,193.40
Total Income for year, <i>Schedule B</i>	\$ 5,661,161.63	
Less funds paid to State Treasurer and not available for the University	1,573.39	
Total Available Income, <i>Schedule B</i>	\$ 5,659,588.24	
Total Expenditures for year, <i>Schedule C</i>	5,613,425.13	
Surplus for the year.....		\$ 46,163.11
Cash Balance June 30, 1924, <i>Schedule D</i>		\$ 274,356.51

THE OHIO STATE UNIVERSITY

ASSETS AND LIABILITIES

Current Assets June 30, 1924, <i>Schedules D and F</i>	\$ 2,757,553.95	
Investment Assets June 30, 1924, <i>Schedules D and F</i>	1,086,517.35	
Educational Plant:		
Value of lands, buildings, and equipment, <i>Schedules D and F</i>	10,671,166.35	
Contingent Liabilities June 30, 1924, <i>Schedule F</i>		\$ 2,277,250.60
Investment Liabilities June 30, 1924, <i>Schedule F</i>		1,086,517.35
Capital Account June 30, 1924, <i>Schedule F</i>		11,151,469.70
	<u>\$14,515,237.65</u>	<u>\$14,515,237.65</u>
		<i>Schedule B</i>

INCOME

Description	Items	Total
INCOME FROM STUDENTS:		
Tuition and incidental fees, <i>Schedule B-1</i>	\$ 449,465.00	
Special fees, degrees, etc.....	8,381.00	
Gymnasium locker rent.....	9,518.00	
	<u>\$ 467,364.00</u>	
Received from U. S. Veterans' Bureau for 1922-1923.....	5,444.00	\$ 472,808.00
INCOME FROM ENDOWMENTS:		
For general purposes, <i>Schedule G</i>	13,045.88	
For designated purposes, <i>Schedule H</i>	5,216.81	18,262.69
FEDERAL AID:		
Land-grant Act of July 2, 1862, <i>Schedule G</i>	31,450.60	
Land Grant—Virginia Military Lands— <i>Schedule G</i>	13,535.47	
Additional Aid—Acts of August 30, 1890, and March 4, 1907	50,000.00	
Agricultural Extension Work—Acts of May 8, 1914, and		
July 24, 1919.....	228,773.32	323,759.39
STATE AID:		
Current Expenses, <i>Schedule I</i>	2,297,980.59	
Capital Improvements, <i>Schedule I</i>	1,437,218.53	
Agricultural Extension, <i>Schedule I</i>	220,157.56	3,955,356.68
GIFTS FOR CURRENT EXPENSES:		
For designated purposes, <i>Schedule B-2</i>	14,568.10	14,568.10
INCOME FROM OTHER SOURCES:		
Agricultural Extension		
Boys' and Girls' Club Work.....	7,899.39	
County Agents' Funds from Counties.....	162,009.83	
Farm Bureau	629.17	
Farmers' Institute Funds from Counties.....	14,875.00	185,413.39
Departmental Earnings		
Architecture-Photo	1,014.50	
Dental Clinic	22,001.85	
Dispensaries	1,784.08	
Engineering Experiment Station Sales.....	67.00	
Farm Rotary	57,027.09	
Lantern	15,787.05	
Laundry	112.80	
Ohio Biological Survey.....	18.15	
Operation of Gas Retort.....	14.45	
University Hospital	32,080.45	
Veterinary Clinic	7,655.08	137,562.50
For Designated Purposes		
Commutation of Uniforms.....	54,320.39	
Class of 1921—Interest on Gift.....	77.49	
Class of 1923—Interest on Gift.....	102.12	
*Miscellaneous Sales	1,337.03	
*Rent	232.36	
State Board of Education (Smith-Hughes).....	51,398.85	
Sophomore Book Account.....	282.10	
Student Fees, \$306.25 less \$57.65 lapsed.....	248.60	
U. S. Veterans' Bureau for Tuition Refunds.....	325.00	
Virginia Military Lands.....	4.00	108,327.94

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DORMITORIES AND DINING HALLS:

Home Economics Cafeteria.....	25,330.06	
Residence Halls for Women.....	66,041.57	91,371.63

COMMERCIAL ACCOUNTS:

University Press	62,860.81	
Warehouse	291,370.50	353,731.31

Total Income, <i>Schedule A</i>		\$ 5,661,161.63
Less funds (*) paid to State Treasurer and not available for the University, <i>Schedule A</i>		1,573.39

Total Available Income, <i>Schedule A</i>		\$ 5,659,588.24
		<i>Schedule C</i>

CLASSIFIED EXPENDITURES

Description	Items	Total
EXPENSES:		
Salaries	\$ 2,566,604.83	
Boys' and Girls' Club Work.....	7,838.13	
Employees and extra labor.....	109,684.04	
Coal and gas.....	97,700.98	
Feed for livestock.....	19,349.35	
Field work, Agricultural Extension.....	112,931.35	
Food supplies	19,176.68	
Freight and cartage.....	8,809.23	
Incidentals	70,253.98	
Laboratory and educational supplies.....	74,887.17	
Materials and general supplies.....	111,406.38	
Printing	59,754.37	
Refunds	54,557.42	
Repairs to equipment	17,986.27	
Scholarships and student aid.....	18,374.00	
Stationery and office supplies.....	45,470.94	
Telephone and telegraph	7,971.83	
Traveling expense	9,505.61	
Water	20,976.68	
Total Equipment, <i>Schedules C-1 and C-2</i>		\$ 3,433,239.24

EQUIPMENT:

Apparatus	\$ 51,584.46	
Books	46,557.88	
Collections	303.67	
Furniture and fixtures.....	34,874.39	
Livestock	10,752.47	
Machinery, tools, and appliances.....	21,303.86	
Total Equipment, <i>Schedules C-1 and C-3</i>		\$ 165,376.73

LANDS	\$ 100,194.34	
NEW BUILDINGS	1,075,947.08	
ADDITIONS TO BUILDINGS	319,366.87	
IMPROVEMENTS	70,544.23	
Total, <i>Schedules C-1 and C-4</i>		\$ 1,566,052.52

DORMITORIES AND DINING HALLS:		
Home Economics Cafeteria.....	\$ 26,406.71	
Residence Halls for Women.....	70,329.29	
Total Dormitories and Dining Halls.....		\$ 96,736.00

COMMERCIAL:		
University Press	\$ 55,555.35	
Warehouse	296,465.29	
Total Commercial		\$ 352,020.64

Total Expenditures, <i>Schedules A and C-1</i>		\$ 5,613,425.13
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BALANCE SHEET JUNE 30, 1924

ASSETS

Description	Items	Total
CURRENT ASSETS:		
Cash in bank and on hand for current expense.....	\$ 274,356.51	
Deposits	454.00	
Auditor of State, Special Appropriations.....	2,277,250.60	
Warehouse (supplies per inventory).....	205,492.84	
		\$ 2,757,553.95

THE OHIO STATE UNIVERSITY

INVESTMENT ASSETS:

State Treasurer (irreducible debt of the State).....	\$ 1,058,937.95
Ohio State University Treasurer.....	27,579.40

\$ 1,086,517.35

EDUCATIONAL PLANT:

Lands, Buildings, and Equipments.....	\$10,671,166.35
Total Assets.....	\$14,515,237.65

LIABILITIES

Description	Items	Total
CURRENT LIABILITIES:		
Special State Appropriations.....		\$ 2,277,250.60
ENDOWMENT FUNDS:		
Funds for General Purposes, Invested.....	\$ 967,389.59	
Funds for Special Purposes, Invested.....	119,127.76	1,086,517.35
CAPITAL ACCOUNT:		
Capital Account		11,151,469.70
Total Liabilities		\$14,515,237.65

GIFTS FOR GENERAL AND DESIGNED PURPOSES

The following items are turned into the State Treasury to the credit of Rotary funds for use by the University:

Name and Description	Amount
American Gas Association.....	\$ 1,162.76
A gift for research work in connection with the gas retort	
Class of 1923.....	4,105.00
A gift for the purchase of a bronze statue of Dr. W. O. Thompson	
The Commonwealth Fund.....	2,000.00
A gift for expenses in connection with the Bureau of Educational Research	
Deis-Fertiz Dairies Company.....	60.00
A gift for research work in connection with Swiss Cheese Project	
E. I. du Pont de Nemours Company.....	750.00
A gift for the support of a fellowship in the Department of Chemistry	
Grasselli Chemical Company.....	750.00
A gift for the support of a fellowship in the Department of Chemistry	
National Agricultural Limestone Association.....	2,000.00
A gift for the support of a fellowship in the Department of Soils	
Ohio Gas and Oil Men's Association.....	1,750.00
A gift for research work in connection with the gas retort	
Edward Orton, Jr.....	500.00
A gift for the purchase of books for the Orton Memorial Library	
Mrs. F. E. Pomerene.....	200.00
A gift for the support of a scholarship in the Graduate School	
Rotary Club of Columbus.....	200.00
A gift for the purchase of equipment for the treating of crippled children	
Julius F. Stone.....	1,090.34
A gift for the purchase of equipment for the Department of Chemistry	
Total, Schedule B.....	\$14,582.55

APPENDIX I

BOARD OF TRUSTEES—1923-1924

	Date Original Appointment	Term Expires
CHARLES F. KETTERING, Dayton.....	March 21, 1917	May 13, 1923
LAWRENCE E. LAYBOURNE, Springfield.....	May 14, 1921	May 13, 1924
OSCAR E. BRADFUTE, Xenia.....	August 21, 1905	May 13, 1925
THOMAS C. MENDENHALL, Ravenna.....	June 16, 1919	March 22, 1924
*MRS. ALMA W. PATERSON, Columbus.....	March 27, 1924	May 13, 1926
BENJAMIN F. McCANN, Dayton.....	May 13, 1913	May 13, 1927
EGBERT H. MACK, Sandusky.....	December 12, 1922	May 13, 1928
JOHN KAISER, Marrietta.....	February 25, 1915	May 13, 1929

* Mrs. Alma W. Paterson appointed to fill the unexpired term of Dr. Mendenhall, who died March 22, 1924.

OFFICERS OF THE BOARD

CHARLES F. KETTERING.....	Chairman
LAWRENCE E. LAYBOURNE.....	Vice-Chairman
CARL E. STEEB.....	Secretary and Business Manager
JULIUS F. STONE.....	Treasurer

APPENDIX II

ADMINISTRATIVE OFFICERS

For the Year Ending June 30, 1924

WILLIAM OXLEY THOMPSON, D.D., LL.D.....	President
Office—University Hall, 99312; N. 476	
Residence—University Grounds, 2056	
CARL E. STEEB, B.Ph.....	Secretary of the Board of Trustees and Business Manager
Office—University Hall (East End), 99332; N. 32	
Residence—1956 Iuka Avenue, 5835	
EDITH D. COCKINS, B.A.....	Registrar, University Editor, and Secretary of the Faculty
Office—101 University Hall, 99314	
Residence—1348 Neil Avenue, 16310	
BLAND L. STRADLEY, M.A.....	University Examiner
Office—107 University Hall, 99353; N. 939	
Residence—318 West Seventh Avenue, N. 7454-J	
ELISABETH CONRAD, M.A., Ph.D.....	Dean of Women
Office—Pomerene Hall, 99367; N. 3931-W	
Residence—1981 Indianola Avenue, 11252	
KATHERINE A. VOGEL.....	Executive Clerk
Office—University Hall, 99312; N. 476	
Residence—209 South Monroe Avenue, Franklin 2356-W	
RAY M. ROYER.....	Purchasing Agent
Office—University Hall, (East End), 99374; N. 3222	
Residence—1828 Arlington Avenue, Hilltop 2850-J	
FRED E. JONES.....	Receiving Clerk
Office—Stores and Receiving Department, 99354; N. 3813	
Residence—255 Oakland Park Avenue, N. 3900-J	
CHARLES A. KUNTZ.....	Comptroller
Office—University Hall (East End), 99332; N. 32	
Residence—265 Tulane Road, N. 2240-J	
FLORIS D. HANE.....	Cashier
Office—University Hall (East End), 99332; N. 32	
Residence—1755 North Fourth Street, 11954	
WILLIAM C. McCracken.....	Superintendent of Operation and Maintenance
Office—Service Building, 99370; N. 718	
Residence—8 West Woodruff Avenue, 11823	
JOSEPH N. BRADFORD.....	University Architect
Office—Brown Hall, 99361	
Residence—55 East Oakland Avenue, 14844	
EMMA McKINLEY PROUT.....	House Superintendent—Oxley and Mack Halls
Office and Residence—Mack Hall, 99352; N. 4146	
EDWARD S. DRAKE.....	Manager—Ohio Union
Office and Residence—Ohio Union, 99359—1R; N. 3270	

APPENDIX III

Which shows the number of professors, officers, teachers, and other employees, and the position and compensation of each, as required by Section 7947 of an Act passed May 29, 1915.

<i>Name of Employee</i>	<i>Position</i>	<i>Salary</i>
William Oxley Thompson	President.....	\$10,000.00
COLLEGE OF AGRICULTURE		
Alfred Vivian	Dean.....	6,000.00
True G. Watson	Secretary of the College.....	2,700.00
*Ina Shirk	Secretary to Dean.....	374.19
*Eloise Terbrueggen	Stenographer.....	160.00
*Anna Haynes	Stenographer.....	939.35
*Eunice Evans	Stenographer.....	400.00
Nora Peck	Stenographer.....	960.00
*Treva Siler	Stenographer.....	360.00
Bessie M. Freet	Stenographer.....	1,125.16
Martha Okey	Stenographer.....	920.00
Eleanor K. Fisher	Stenographer.....	960.00
Beatrice Samson	Stenographer.....	939.35
*Cecelia Ryan	Stenographer.....	240.00
Hazel Monett	Stenographer.....	480.00
Flo Bailey	Stenographer.....	469.68
*Marjorie Norris	Stenographer.....	69.68
*Leale Naeman	Stenographer.....	18.06
*Ellen Pentland	Stenographer.....	183.23
Effa Harm	Stenographer.....	400.00
*Bernice Blue	Secretary to Dean.....	100.00
Mary E. Hirst	Stenographer.....	544.00
*Henrietta Smith Higgins	Stenographer.....	225.00
*Anna S. Miller	Stenographer.....	658.06
*Frances Summers	Stenographer.....	600.00
*Helen Coleman	Stenographer.....	560.00
*Evelyn Tomlinson	Stenographer.....	443.87
*Ruth G. Curry	Stenographer.....	425.81
*Margaret Riley	Stenographer.....	58.67
AGRICULTURAL CHEMISTRY		
John F. Lyman	Professor.....	4,500.00
Thomas G. Phillips	Professor.....	3,500.00
Emory F. Almy	Instructor.....	1,800.00
R. C. Burrell	Instructor.....	900.00
Carl P. Hinkle	Assistant.....	900.00
AGRICULTURAL EDUCATION		
W. F. Stewart	Professor.....	3,000.00
AGRICULTURAL ENGINEERING		
F. W. Ives	Professor.....	4,250.00
G. W. McCuen	Professor.....	3,750.00
C. O. Reed	Professor.....	3,937.50
P. B. Potter	Assistant Professor.....	3,300.00
J. T. Miller	Mechanic.....	1,400.00
E. C. Haughn	Mechanic.....	1,140.00
*M. S. Klinck	Assistant.....	750.00
ANIMAL HUSBANDRY—INSTRUCTIONAL		
Carl W. Gay	Professor.....	6,000.00
C. S. Plumb	Professor.....	4,000.00
D. J. Kays	Professor.....	3,750.00
J. S. Coffey	Professor.....	3,750.00

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C. T. Conklin	Assistant Professor.....	3,500.00
*Dalton D. Dowds	Graduate Assistant.....	500.00
*Walter Krill	Assistant.....	400.00

ANIMAL HUSBANDRY—EMPLOYEES

David M. Fyffe	Superintendent Live Stock.....	1,800.00
Paul Jackson	Dairy Cattle Herdsman.....	1,440.00
William Franklin	Shepherd.....	1,440.00
Robert Watson	Groom.....	1,440.00
George Taylor	Beef Cattle Herdsman.....	1,260.00
Cecil Bayes	Beef Cattle Herdsman.....	1,440.00
Judson Solomon	Swine Herdsman.....	1,440.00
H. T. Laws	Laborer.....	1,105.00
Ray Garrett	Assistant Dairy Cattle Herdsman.....	1,080.00
J. T. Laws	Assistant Dairy Cattle Herdsman.....	1,080.00
Jefferson Severe	Laborer.....	1,080.00
Alvin McAdow	Laborer.....	1,080.00
L. H. Myers	Laborer.....	960.00
*Lorenzo Bloomer	Teamster.....	46.44
William Whitacre	Pavilion Groom.....	960.00
*William Kloepper	Assistant Shepherd.....	75.00
Leonard Swanson	Laborer.....	220.00
*L. G. Souders	Assistant Shepherd.....	860.00
*Joseph Miller	Laborer.....	900.00
*Clarence Schwan	.....	20.00

BOTANY

E. N. Transeau	Professor.....	5,000.00
J. H. Schaffner	Professor.....	3,500.00
W. G. Stover	Professor.....	3,500.00
H. C. Hampson	Professor.....	3,500.00
A. E. Waller	Assistant Professor.....	3,250.00
L. H. Tiffany	Instructor.....	1,800.00
J. D. Sayre	Instructor.....	1,800.00
*Lois Lampe	Instructor.....	1,125.00
*R. A. Dobbins	Instructor.....	1,125.00
*Dwight M. Moore	Instructor.....	1,125.00
J. S. Crabb	Assistant.....	1,200.00
*Curtis May	Graduate Assistant.....	500.00
*Dwight M. Moore	Graduate Assistant.....	166.65
*Lillian K. Krueger	Graduate Assistant.....	166.65
Howard W. Johnson	Graduate Assistant.....	500.00
Sylvester Humphery	Graduate Assistant.....	500.00
Walter H. Pomerene	Graduate Assistant.....	500.00
Margaret H. Meyer	Student Assistant.....	300.00
Pearl E. Williams	Student Assistant.....	300.00
Kathryn B. Kiner	Student Assistant.....	300.00
*Paul J. Hanes	Student Assistant.....	240.00
Harmon A. Runnels	Assistant.....	1,000.00
Bernard S. Meyer	Instructor.....	1,125.00
*Ivan E. Masser	Graduate Assistant.....	300.00

DAIRYING

Oscar Erf	Professor.....	4,500.00
R. B. Stoltz	Professor.....	3,500.00
H. D. Drain	Assistant Professor.....	2,500.00
D. S. Kochheiser	Instructor.....	2,100.00
*George Reynolds	Driver.....	270.00
W. N. McCutchan	Graduate Assistant.....	500.00
J. B. Seelig	Driver.....	810.00

FARM CROPS

J. B. Park	Professor.....	4,000.00
C. G. Willard	Assistant Professor.....	3,000.00
H. L. Borst	Instructor.....	1,800.00
R. H. Livingston	Assistant (Field Work).....	1,200.00
Marion T. Meyers	Assistant.....	900.00
Harold F. Thayer	Graduate Assistant.....	500.00

FARM OPERATIONS

A. E. Smith	Farm Foreman.....	2,000.00
John DeWitt	Mechanic.....	1,500.00
Lloyd Blackburn	Mechanic.....	1,200.00
Charles Pugh	Head Teamster.....	1,080.00
*Joe Miller	Teamster, Laborer.....	180.00
John Long	Teamster, Laborer.....	1,080.00
B. L. Johnson	Teamster, Laborer.....	1,080.00
S. N. Bell	Teamster, Laborer.....	1,080.00
*Alonzo McKenzie	Teamster, Laborer.....	90.00
H. L. Bosart	Teamster, Laborer.....	1,080.00
M. Peck	Teamster.....	1,080.00
A. M. Farley	Laborer.....	990.00
*Homer Clark	Laborer.....	720.00

HOME ECONOMICS

Faith R. Lanman	Professor.....	4,000.00
Grace G. Walker	Professor.....	3,600.00
Maude G. Adams	Professor.....	1,800.00
June Findley	Assistant Professor.....	2,800.00
*Gladys McGill	Assistant Professor.....	1,875.00
Hughina McKay	Assistant Professor.....	2,500.00
Alice Donnelly	Assistant Professor.....	2,249.99
*Lelia McGuire	Instructor.....	1,333.32
Laurentza Hansen	Instructor.....	1,800.00
Elsie Steiger	Instructor.....	1,666.66
*Katherine Bazole	Instructor.....	1,000.00
Marian Smith	Instructor.....	1,400.00
*Helen Cahill	Assistant.....	150.00
Mildred Watts	Assistant.....	450.00
Lois Lintner	Student Assistant.....	128.23
*Helen Diehl	Student Assistant.....	120.00
*Alta Kiser	Graduate Assistant.....	450.00
Margaret Tanner	Graduate Assistant.....	585.00
Rama Edelen	Student Assistant.....	75.00
Lucinda Mae Alexander	Graduate Assistant.....	300.00
Dorothy Ryder	Student Assistant.....	83.71
Emma Henton	Instructor.....	375.00
Bertha Hayes	Instructor.....	375.00
Dorothy Butterworth	Assistant.....	225.00

HORTICULTURE AND FORESTRY

W. Paddock	Professor.....	4,500.00
William R. Sears	Professor.....	2,916.00
L. M. Montgomery	Professor.....	3,300.00
A. D. Taylor	Non-resident Professor.....	750.00
A. C. Hottes	Assistant Professor.....	3,000.00
N. W. Scherer	Assistant Professor.....	2,250.00
*F. J. Rimoldi	Assistant Professor.....	941.09
F. G. Charles	Instructor.....	2,160.00
Elusina Lasenby	Graduate Assistant.....	500.00
John Morrison	Assistant.....	1,860.00
J. E. Shanck	Assistant.....	1,400.00
John Hussey	Assistant.....	1,860.00
Joseph Haigh	Laborer.....	1,080.00
J. Keeney McDowell	Assistant Professor.....	1,500.00

LAKE LABORATORY

F. H. Kreckler	Assistant Director.....	500.00
S. R. Williams	Instructor in Zoology.....	350.00
M. E. Stickney	Instructor in Botany.....	350.00
C. H. Kennedy	Instructor in Entomology.....	350.00

POULTRY HUSBANDRY

E. L. Dakan	Professor.....	3,750.00
Roy E. Roberts	Instructor.....	1,350.00
Arthur Bayes	Superintendent of Poultry Plant.....	1,680.00
A. L. Everitt	Laborer.....	270.00
William Potts	.....	687.00

RURAL ECONOMICS

J. I. Falconer	Professor.....	5,000.00
C. G. McBride	Assistant Professor.....	3,300.00
C. E. Lively	Assistant Professor.....	3,300.00
F. L. Morison	Instructor.....	2,250.00
Myrtle Souders	Statistical Clerk.....	960.00
Irma Earle	Statistical Clerk.....	960.00
Margie Hoffman	Stenographer.....	960.00
John F. Dowler	Assistant.....	360.00

SOILS

Firman E. Bear	Professor.....	4,500.00
Guy W. Conrey	Assistant Professor.....	2,250.00
George M. McClure	Instructor.....	2,700.00
Charles L. Thrash	Instructor.....	2,400.00
George Valley	Instructor.....	500.00
Joel C. Leslie	Assistant (Fertility Plots).....	1,080.00
Elbert Stephenson	Assistant (Fertility Plots).....	1,080.00
James W. Jones	Assistant (Fertility Plots).....	1,080.00

ZOOLOGY AND ENTOMOLOGY

Raymond C. Osburn	Professor.....	5,000.00
Herbert Osborn	Research Professor.....	5,000.00
W. M. Barrows	Professor.....	3,250.00
F. H. Kreckler	Professor.....	3,250.00
D. M. DeLong	Professor.....	3,900.00
W. J. Kostir	Assistant Professor.....	2,500.00
C. H. Kennedy	Assistant Professor.....	2,300.00
James S. Hine	Associate Professor.....	2,500.00
E. L. Wickliff	Instructor.....	1,500.00
David F. Miller	Instructor.....	1,125.00
Linden F. Edwards	Instructor.....	900.00
Archie N. Tissot	Assistant.....	1,200.00
Hugh Setterfield	Assistant.....	900.00
Mary Warters	Assistant.....	900.00
Frank M. Hull	Graduate Assistant.....	500.00
Floyd F. Smith	Graduate Assistant.....	500.00
Oscar L. Cartwright	Graduate Assistant.....	500.00
Arthur L. Hamner	Graduate Assistant.....	500.00
Harold C. Lewis	Graduate Assistant.....	500.00
John O. Pepper	Graduate Assistant.....	500.00
F. L. Gambrell	Graduate Assistant.....	500.00
Walter Kraatz	Instructor.....	300.00
Edna Patterson	Assistant.....	900.00

COLLEGE OF ARTS

William E. Henderson	Dean.....	6,000.00
Smiley M. Whinery	Secretary.....	2,700.00
Ruth Evans	Stenographer.....	1,200.00
*Annabella Mitchell	Stenographer.....	400.00
*Susan Borst	Stenographer.....	760.00

Marie Combs	Stenographer.....	960.00
Luella Wright	Stenographer.....	960.00
*Ethel Saunders	.....	536.77
*Helen Grunick	.....	178.67

AMERICAN HISTORY

G. W. Knight	Professor.....	5,000.00
H. C. Hockett	Professor.....	4,250.00
Arthur C. Cole	Professor.....	3,750.00
Carl Wittke	Assistant Professor.....	3,750.00
Lawrence F. Hill	Assistant Professor.....	2,500.00
Eugene Roseboom	Instructor.....	1,687.50
R. H. Shryock	Instructor.....	2,000.00
S. S. McKay	Instructor.....	1,500.00
A. J. Beyer	Instructor.....	500.00
Eugene Roseboom	Instructor (Summer Quarter).....	175.00

ENGLISH

J. V. Denny	Professor.....	6,000.00
G. H. McKnight	Professor.....	4,500.00
J. R. Taylor	Professor.....	4,200.00
W. L. Graves	Professor.....	4,000.00
C. E. Andrews	Professor.....	4,000.00
E. L. Beck	Professor.....	3,500.00
V. A. Ketcham	Professor.....	3,500.00
Milton Percival	Assistant Professor.....	3,000.00
E. W. Wiley	Instructor.....	2,750.00
W. P. Sandford	Instructor.....	2,500.00
J. F. Craig	Instructor.....	2,500.00
Hayes Yeager	Instructor.....	1,875.00
Manning Smith	Instructor.....	1,875.00
Sada Harbarger	Instructor.....	2,250.00
Gertrude Robinson	Instructor.....	1,800.00
Verona Dollinger	Instructor.....	1,800.00
Edith Sniffen	Instructor.....	1,800.00
Walter French	Instructor.....	1,800.00
Whittier Burnet	Instructor.....	1,800.00
Bernard Raymond	Instructor.....	1,800.00
Herman Miller	Instructor.....	1,800.00
John M. Weed	Instructor.....	1,800.00
James Fullington	Instructor.....	1,800.00
Eleanor H. Percival	Instructor.....	1,500.00
Mary E. Ross	Instructor.....	1,500.00
John P. Fife	Instructor.....	1,500.00
Mary A. Hitchcock	Instructor.....	1,500.00
Henry C. Kohler	Assistant.....	800.00
Robert Kane	Assistant.....	800.00
Kenneth C. Randall	Assistant.....	800.00
Herbert Edwards	Assistant.....	500.00
Blaine DeLancey	Assistant.....	500.00
Ruth Fisher	Assistant.....	500.00
Floy Winks	Assistant.....	500.00
Benjamin Gamzue	Assistant.....	500.00
H. M. Smyser	Assistant.....	500.00
Frederick Tupper	Professor (First term, Summer Quarter).....	800.00
*James Chalfant	Assistant.....	333.30
Edward F. Harden	Instructor.....	450.00
Henry Wilson	Instructor.....	375.00
Geo. B. Woods	Professor.....	1,000.00
Harlan Hatcher	Instructor.....	1,125.00
Anne Jenkins	Student Assistant.....	150.00
Cyrus K. Carroll	Student Assistant.....	150.00
Robert S. Adams	Student Assistant.....	150.00

Mrs. Ray B. Ankenbrand	Student Assistant.....	150.00
Josephine Bye	Student Assistant.....	150.00
Earl Philip Carter, Jr.	Student Assistant.....	150.00
Charles G. Fulkerson	Student Assistant.....	150.00
Donald R. Goodell	Student Assistant.....	150.00
Ralph Lonius	Student Assistant.....	150.00
Mortimer Mulholland	Student Assistant.....	150.00
Evelyn J. Shulman	Student Assistant.....	150.00
Josephine Waters	Student Assistant.....	150.00
Harold L. Yochum	Student Assistant.....	150.00
Iola Teckhauser	Student Assistant.....	150.00

EUROPEAN HISTORY

Professor.....	4,999.98
Professor.....	4,000.00
Assistant Professor.....	3,000.00
Assistant Professor.....	2,750.00
Assistant Professor.....	2,612.50
Instructor.....	2,250.00
Instructor.....	1,350.00
Instructor.....	400.00

GEOLOGY

Professor.....	4,000.00
Professor of His. Geology and Curator.....	4,000.00
Assistant Professor.....	3,000.00
Instructor.....	2,500.00
Instructor.....	2,500.00
Instructor.....	2,000.00
Instructor.....	1,500.00
Student Assistant.....	100.00
Student Assistant.....	100.00
Student Assistant.....	100.00

GERMAN

Professor.....	5,000.00
Professor.....	4,000.00
Professor.....	3,000.00
Assistant Professor.....	1,800.00
Assistant Professor.....	2,100.00
Instructor.....	1,800.00

GREEK

Professor.....	5,000.00
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LATIN

Professor.....	3,600.00
Professor.....	3,600.00
Instructor.....	2,800.00

PHILOSOPHY

Professor.....	5,250.00
Professor.....	3,750.00
Assistant Professor.....	3,200.00
Assistant Professor.....	3,000.00
Instructor.....	2,000.00

POLITICAL SCIENCE

Professor.....	4,500.00
Professor.....	4,250.00
Instructor.....	1,500.00
Instructor.....	1,500.00
Assistant.....	499.99
Professor.....	1,000.00
Assistant Professor.....	800.00

W. H. Siebert
 Edgar H. McNeal
 H. M. Stuckert
 G. A. Washburne
 John R. Knipping
 A. H. Noyes
 Arthur W. Jones
 Samuel Rezneck

J. A. Bownocker
 J. E. Carman
 Roderick Peattie
 Robert F. Webb
 R. E. Lamborn
 Paris B. Stockdale
 Grace Stewart
 Howard L. Hamilton
 Stafford R. Taylor
 Dorothy Lockhart

M. B. Evans
 L. Bloomfield
 B. A. Eisenlohr
 Ernst Feise
 May Thomas
 Lambert A. Shears

George M. Bolling

A. W. Hodgman
 W. S. Elden
 S. B. Smith

J. A. Leighton
 George H. Sabine
 A. R. Chandler
 A. E. Avey
 D. L. Evans

H. R. Spencer
 F. W. Coker
 *Howard B. Calderwood
 James K. Pollock, Jr.
 Wayne E. Stichter
 W. J. Shepard
 C. E. Berdahl

ROMANCE LANGUAGES

Robert E. Rockwood	Assistant Professor.....	3,833.33
W. S. Hendrix	Professor.....	4,500.00
Olin H. Moore	Professor.....	4,200.00
George R. Havens	Professor.....	4,000.00
Santiago Gutierrez	Assistant Professor.....	3,250.00
E. F. Hacker	Assistant Professor.....	3,000.00
Robert Fouré	Assistant Professor.....	3,000.00
Theodore E. Hamilton	Assistant Professor.....	2,500.00
W. A. Wharley	Instructor.....	3,055.55
W. C. Smyser	Instructor.....	1,650.00
D. P. Rotunda	Instructor.....	2,688.88
Raymond L. Grismer	Instructor.....	2,200.00
Emily Schons	Instructor.....	2,000.00
Florence Hier	Instructor.....	2,000.00
Bertha P. Arthur	Instructor.....	1,800.00
Helen V. Terry	Instructor.....	1,500.00
Frederick Sanchez	Instructor.....	1,125.00
Helen C. Barr	Assistant.....	1,650.00
Earl C. Shively	Assistant.....	1,650.00
Flola Shepard	Assistant.....	1,950.00
Helen Foure	Assistant.....	1,200.00
Marie Davis	Assistant.....	500.00
Ruth Whatley	Assistant.....	2,000.00
Irma Selby	Assistant.....	1,800.00
Gertrude Walsh	Assistant.....	450.00
*Irene M. Gibson	Assistant.....	405.00
Frances Summy	Assistant.....	240.00
Caroline Tyler	Assistant.....	300.00

COLLEGE OF COMMERCE AND JOURNALISM

J. E. Hagerty	Dean.....	6,000.00
Edna Hale	Stenographer.....	860.00
*Frances Snider	Stenographer.....	189.33
Bertha C. Caley	Stenographer.....	960.00
*Nellie Stoneburner	Stenographer.....	779.35
*Nell Gainer	Stenographer.....	770.67
*Rose Mindigo	Stenographer.....	720.00
*Esther Goddard	Stenographer.....	720.00
Claire Harmyer	Assistant.....	1,693.54
Ruth Pollitt	Stenographer.....	720.00
Lucile Carner	Stenographer.....	202.67
Adelaide Gardiner	Stenographer.....	80.00

ACCOUNTING

G. W. Eckelberry	Professor.....	4,500.00
Howard C. Greer	Assistant Professor.....	2,625.00
Harold Huling	Instructor.....	550.00
D. M. Shonting	Assistant.....	2,100.00
*J. Lake Vesper	Assistant.....	1,516.62
Harold K. Casterton	Assistant.....	1,600.00
Maynard M. Donaldson	Assistant.....	795.00
Dalas S. Bolon	Instructor.....	1,800.00
Herman S. Miller	Assistant.....	475.00

BUREAU OF BUSINESS RESEARCH

Russell E. Lyons	Clerk Assistant.....	1,500.00
*Earle Wambold	Stenographer.....	660.64
*George W. Starr	Clerk Assistant.....	75.00
George W. Starr	Acting Director.....	2,500.00
H. H. Shively	Investigator.....	3,000.00
John E. Pryor	Investigator.....	1,050.00

BUSINESS ORGANIZATION

*Clyde O. Ruggles	Professor.....	2,000.00
John A. Fisher	Professor.....	5,000.00
Henry E. Hoagland	Professor.....	5,000.00
Walter C. Weidler	Professor.....	4,000.00
Harold H. Maynard	Professor.....	3,000.00
J. A. Fitzgerald	Assistant Professor.....	3,750.00
Charles A. Dice	Assistant Professor.....	3,500.00
Felix E. Held	Assistant Professor.....	3,500.00
Montgomery E. Pike	Assistant Professor.....	3,000.00
Milton Nelson	Assistant Professor.....	2,250.00
Theodore N. Beckman	Instructor.....	2,500.00
Howard H. Webster	Instructor.....	1,687.50
Ralph H. Richards	Instructor.....	1,750.00
Robert M. Hunter	Assistant.....	1,200.00
Cary W. Bowers	Assistant.....	900.00
Don Wiper	Assistant.....	500.00
William Summers	Reader.....	150.00
Carl Adams	Reader.....	150.00
Ralph C. Davis	Assistant Professor.....	2,700.00
D. G. Hornberger	Lecturer.....	900.00
W. N. King	Lecturer.....	800.00
W. H. Snook	Lecturer.....	1,000.00
Robert D. McGinnis	Assistant.....	600.00
D. S. Peirce	Reader.....	90.00
C. C. Campbell	Reader.....	90.00
R. B. Alspaugh	Reader.....	90.00
Raymond Gauch	Assistant.....	300.00

ECONOMICS

M. B. Hammond	Professor.....	6,000.00
H. G. Hayes	Professor.....	4,500.00
A. B. Wolfe	Professor.....	4,125.00
H. F. Walradt	Assistant Professor.....	3,500.00
George D. Haskell	Instructor.....	2,400.00
Frederick Croxton	Instructor.....	2,250.00
L. E. Smart	Instructor.....	1,750.00
Virgil Willett	Instructor.....	1,312.50
C. W. Fink	Instructor.....	1,312.50
Louise Stitt	Assistant.....	1,500.00
Frank H. Hunt	Assistant.....	1,500.00
Edison L. Bowers	Assistant.....	1,000.00
David S. Prosser	Reader.....	50.00
Russell H. Martin	Reader.....	150.00
*Phillip G. Beck	Reader.....	113.28
Melvin Black	Reader.....	200.00
Lowell K. Hansen	Reader.....	170.00
Kenneth B. Johnston	Reader.....	170.00
Garrett M. Hartley	Reader.....	200.00
Heston McPherson	Reader.....	100.00
Wm. H. Phillips	Reader.....	170.00
*Carl W. Vandevort	Reader.....	111.10
Herbert Willit	Reader.....	170.00
Malvern C. Buchanan	Reader.....	200.00
H. G. Alger	Reader.....	88.90

ECONOMIC AND SOCIAL GEOGRAPHY

C. C. Huntington	Professor.....	4,500.00
Eugene Van Cleef	Assistant Professor.....	3,500.00
F. A. Carlson	Assistant Professor.....	3,000.00
F. W. Blanchard	Instructor.....	650.00
P. G. Eckelberry	Assistant.....	1,300.00

Donald J. Hoskins	Assistant.....	1,000.00
Stella Huntington	Assistant.....	300.00
*Robert B. Streeper	Reader.....	50.00
Donald C. Power	Assistant.....	900.00
Harold M. Eswine	Assistant.....	900.00
Harold Fischer	Assistant.....	900.00
Webster Davis	Assistant.....	200.00
Merton Steele	Reader.....	100.00

JOURNALISM

J. S. Myers	Professor.....	5,000.00
Osman C. Hooper	Professor.....	4,000.00
Lester C. Getzloe	Assistant Professor.....	2,600.00
Paul C. Carty	Instructor.....	2,800.00
Albert P. Taylor	Instructor.....	2,236.00
Russell Lord	Instructor.....	1,350.00
William H. Mylander	Editor Lantern.....	500.00
Carroll E. Bartlett	Business Manager Lantern.....	500.00
*James M. Schlemmer	Editor Lantern.....	37.50
Ernest M. Margulies	Business Manager Lantern.....	75.00
Dallas R. Tobin	Editor Lantern.....	37.50
*John W. Reed	Linotype Operator.....	1,170.87

SOCIOLOGY

C. C. North	Professor.....	4,500.00
F. E. Lumley	Professor.....	2,666.66
Mary Louise Mark	Professor.....	3,600.00
Walter M. West	Lecturer.....	1,000.00
James W. Wheeler	Lecturer.....	700.00
W. C. Mills	Lecturer.....	500.00
J. W. Hatcher	Assistant.....	2,000.00
H. M. Scott	Assistant.....	1,500.00
Perry P. DeNune	Instructor.....	1,500.00
Lloyd Wilcox	Assistant.....	700.00
Agnes Denune	Assistant.....	335.00
Anna E. Earl	Assistant.....	1,500.00
Agnes D. Denune	Assistant.....	1,200.00
Belle D. Boyson	Lecturer.....	1,500.00
Lloyd VanKeuren	Lecturer.....	700.00
E. Grace Richmond	Reader.....	450.00

COLLEGE OF DENTISTRY

H. M. Semans	Dean.....	6,000.00
H. V. Cottrell	Professor.....	5,000.00
Clyde H. Hebble	Assistant Professor.....	1,700.00
William C. Graham	Assistant Professor.....	1,300.00
R. B. Wiltberger	Assistant Professor.....	1,000.00
Ollie O. Mobberly	Superintendent Laboratories.....	2,400.00
Herbert S. Shumway	Instructor.....	1,300.00
Charles W. Strosnider	Instructor.....	1,300.00
Dick P. Snyder	Instructor.....	1,300.00
Louis E. Reif	Instructor.....	1,000.00
Edwin W. Martindale	Instructor.....	900.00
Irwin A. Bottenhorn	Instructor.....	900.00

COLLEGE OF EDUCATION

George F. Arps	Dean.....	6,000.00
N. S. Maddox	Instructor in Education.....	2,500.00
Esther Miller	Stenographer.....	1,500.00
Louise N. Postle	Stenographer.....	960.00
*Marian McComas	Stenographer.....	678.71
*Frances E. Garden	Stenographer.....	240.00
Mildred Dennis	Stenographer.....	960.00

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Gladys Everitt	Stenographer.....	960.00
*Olive M. Trout	Stenographer.....	670.00
Florence Fearing	Stenographer.....	960.00
Wanda Rittenhouse	Stenographer.....	1,010.00
Mary E. Wheaton	Stenographer.....	920.00
*Harriet D. Sharp	Clerk.....	150.00
Helen L. Smith	Stenographer.....	80.00
*Helen M. Poulton	Clerk.....	542.50
*Barbara Farber	Stenographer.....	218.67
Lura Bell Chamblin	Stenographer.....	699.35
Catherine B. Chancellor	Stenographer.....	314.84
Mildred Baker	Stenographer.....	235.17
Ruth Dellenbach	Stenographer.....	121.29

BUREAU OF EDUCATIONAL RESEARCH

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P. R. Stevenson	Research Associate.....	3,500.00
Belle Voegelien	Reference Assistant.....	2,500.00
Josephine MacLatchy	Editorial Assistant.....	2,500.00
Helen V. Brown	Proofreader.....	1,375.00
A. O. Heck	Research Assistant.....	900.00
E. J. Ashbaugh		4,583.34
Gertrude L. Higgins	Stenographer.....	738.67
Helen Woodfill	Assistant to Director.....	1,212.50

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Ralph S. Fanning	Assistant Professor.....	3,000.00
Alice R. Robinson	Assistant Professor.....	2,650.00
Bruce W. Saville	Instructor.....	2,250.00
Alma Knauber	Instructor.....	1,800.00
Bertha Smith	Instructor.....	450.00
Pleasant McIntosh	Instructor.....	1,125.00
E. W. Rannells	Instructor.....	1,500.00
Ted C. Lewis	Assistant.....	750.00
Elizabeth Weiffenbach	Instructor.....	400.00
Flora Reeder	Instructor.....	1,350.00

HISTORY OF EDUCATION

L. F. Anderson	Professor.....	4,500.00
R. H. Eckelberry	Special Instructor.....	1,750.00
Mark E. Penney	Acting Professor.....	4,000.00

INDUSTRIAL EDUCATION

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Robert E. Smith	Instructor.....	3,500.00
Joseph E. Boman	Instructor.....	700.00

MUSIC

Royal D. Hughes	Professor.....	700.00
Winifred V. Smith	Assistant Professor.....	550.00
Edith Keller	Assistant Professor.....	500.00
Richard M. Tunnicliff	Professor.....	600.00
Mrs. Nelle I. Sharpe	Assistant Professor.....	250.00
Samuel T. Burns	Instructor.....	300.00
Cleo Cowyer	Instructor.....	200.00
Evelyn Ross	Special Practice Teacher.....	125.00

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Orville G. Brim	Professor.....	3,750.00
F. C. Landsittel	Assistant Professor.....	3,000.00

Raymond D. Bennett	Assistant Professor.....	3,000.00
Henry G. Hullfish	Assistant	1,500.00
Theodore L. Scholtz	Assistant.....	1,000.00
Maxwell C. Otto	Professor.....	1,500.00
Vivian T. Thayer	Professor.....	800.00
H. B. Bixby	Professor.....	600.00
E. E. Davis	Professor.....	600.00
Edwin W. Pahlow	Assistant Professor.....	700.00
Jesse Ward	Graduate Assistant.....	500.00
William Moffatt	Instructor.....	400.00

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Albert P. Weiss	Professor.....	4,500.00
Harold E. Burt	Professor.....	4,000.00
Edgar A. Doll	Assistant Professor.....	4,000.00
Herbert A. Toops	Assistant Professor.....	3,000.00
Sidney L. Pressey	Assistant Professor.....	3,000.00
Robert D. Williams	Assistant Professor.....	3,000.00
H. M. Johnson	Assistant Professor.....	2,250.00
Anna S. Rogers	Assistant Professor.....	2,500.00
Erwin A. Esper	Instructor.....	2,400.00
Bertha C. Koch	Instructor.....	2,000.00
O. R. Chambers	Instructor.....	2,000.00
Adolph G. Ekdahl	Instructor.....	1,500.00
Luella C. Pressey	Instructor.....	2,000.00
Paul R. Farnsworth	Instructor.....	2,000.00
Carl N. Rexroad	Instructor.....	2,000.00
Albert N. Henderson	Instructor.....	1,800.00
C. H. Growdon	Assistant.....	1,000.00
Myra W. Kuenzel	Assistant.....	750.00
M. A. Durea	Assistant.....	1,200.00
C. W. Morris	Assistant.....	750.00
Glen S. Long	Assistant.....	600.00
Karl C. Pratt	Assistant.....	500.00
Helen E. Cherrington	Assistant.....	500.00
Zoe E. Leatherman	Assistant.....	500.00
Waid W. Tuttle	Assistant.....	250.00
E. N. Henderson	Professor.....	800.00
Marjorie Bates	Instructor.....	500.00
O. L. Reiser	Instructor.....	225.00
Frank P. Baker	Assistant.....	500.00
Marian Lilly	Assistant.....	100.00
Dorothy Postle	150.00
Naomi Decker	150.00

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J. C. Morrison	Professor.....	5,500.00
*E. J. Ashbaugh	Professor.....	416.66
W. G. Reader	Assistant Professor.....	3,500.00
Wm. W. Ankenbrand	Graduate Assistant.....	500.00
J. L. Manahan	Professor.....	1,000.00
A. O. Heck	Professor.....	1,000.00
J. L. Stenquist	Professor.....	800.00
J. E. Butterworth	Professor.....	750.00
F. T. Goodier	Professor.....	750.00
M. F. Beeson	Assistant Professor.....	600.00
C. C. Ross	Assistant Professor.....	600.00
W. W. Cox	Instructor.....	300.00
Glen T. Rowe	Graduate Assistant.....	200.00
Henry E. Schrammel	Instructor.....	350.00

VOCATIONAL AND COMMERCIAL EDUCATION

R. D. King	Assistant Professor	600.00
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COLLEGE OF ENGINEERING

E. A. Hitchcock	Dean	6,000.00
Lenora Glasgow	Assistant to Dean	1,800.00
*M. Helen Pugh	Stenographer	212.50
Annette Shugert	Stenographer	1,080.00
Mary Lahmering	Stenographer	960.00
Mabel Vesper	Stenographer	960.00
Mina Kennedy	Stenographer	960.00
Alberta Williams	Stenographer	960.00
Dorothy Lyford	Stenographer	960.00
Roxanna Rader	Stenographer	960.00
*Thelma C. Kelly	Stenographer	752.50
Edith Alice Lutz	Stenographer	720.00
*Margaret Burger	Stenographer	141.93
Gladys F. Skadden	Stenographer	560.00
Edna Wallace	Stenographer	400.00
Lelia F. Morgan	Stenographer	225.00

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C. S. Chubb	Professor and Head	4,800.00
Herbert Baumer	Professor	4,000.00
W. C. Ronan	Assistant Professor	3,200.00
F. H. Haskett	Instructor	2,750.00
P. H. Elleman	Assistant	2,400.00
Galen F. Oman	Instructor	1,500.00

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John F. Dickinson	Student Assistant	320.00
Henry I. Raymond	Student Assistant	160.00

CERAMICS

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Carl B. Harrop	Assistant Professor	2,750.00
James T. Robson	Instructor	2,200.00
John Lysatt	Technician	1,000.00

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Charles W. Foulk	Professor	4,500.00
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Cecil E. Boord	Assistant Professor	3,750.00
Edward Mack	Assistant Professor	3,500.00
Wesley G. France	Assistant Professor	2,750.00
Marion Hollingsworth	Assistant Professor	2,700.00
Howard E. Fritz	Instructor	1,650.00
Albert H. Vilbrandt	Instructor	1,650.00
C. D. Looker	Instructor	1,650.00
*A. I. Andrews	Assistant	333.33
Henry W. Haas	Assistant	1,000.00
George H. Vander Borgh	Assistant	1,000.00
Preston Hoff	Assistant	1,000.00
Robert S. Hanson	Assistant	1,000.00
Lucian F. Hunt	Assistant	1,000.00
William W. Mills	Assistant	1,000.00
Charles S. Pease	Assistant	1,000.00
Donald S. Villars	Assistant	1,000.00
Helen L. Wikoff	Assistant	1,000.00

H. J. Barrett	Assistant.....	1,000.00
William S. Jones	Assistant.....	1,000.00
Ying Lam Pun	Assistant.....	1,000.00
John D. McBurney	Assistant.....	1,000.00
Robert W. Collins	Graduate Assistant.....	500.00
George M. Strong	Graduate Assistant.....	500.00
Alpha J. Will	Graduate Assistant.....	500.00
Thomas H. Swan	Graduate Assistant.....	500.00
Albert M. Clifford	Graduate Assistant.....	500.00
Theodore S. Eckert	Graduate Assistant.....	500.00
Raymond E. Schaad	Graduate Assistant.....	500.00
Lloyd C. Swallen	Graduate Assistant.....	500.00
Harvin Achterhof	Graduate Assistant.....	500.00
Aubrey O. Bradley	Graduate Assistant.....	500.00
George L. Bush	Graduate Assistant.....	500.00
H. Clyde Carlton	Graduate Assistant.....	500.00
William R. Cornthwaite	Graduate Assistant.....	500.00
John M. Flikkema	Graduate Assistant.....	500.00
Frederick Frey	Graduate Assistant.....	500.00
Frank C. Keenen	Graduate Assistant.....	500.00
Stewart E. Lower	Graduate Assistant.....	500.00
John M. Purdy	Graduate Assistant.....	500.00
David O'Donnell	Graduate Assistant.....	500.00
Forest H. Valentine	Graduate Assistant.....	500.00
Charles R. Wimmer	Graduate Assistant.....	500.00
James E. Hutchman	Graduate Assistant.....	500.00
Margaret Eslinger	Graduate Assistant.....	500.00
Herrick L. Johnston	Graduate Assistant.....	500.00
Merl Kindy	Graduate Assistant.....	500.00
Abner E. Gregg	Graduate Assistant.....	500.00
Virgil L. Hansley	Student Assistant.....	250.00
Melville L. Wolfrom	Student Assistant.....	250.00
Burton B. Annis	Student Assistant.....	250.00
Reuben A. Eyestone	Student Assistant.....	250.00
Joseph Koffolt	Student Assistant.....	250.00
John E. Fargus	Student Assistant.....	250.00
Joseph F. Haskins	Assistant Professor.....	500.00
Ralph H. Ferguson	Graduate Assistant.....	500.00
George T. Rankin	Graduate Assistant.....	500.00
Andrew E. Roper	Assistant.....	1,000.00
George M. Karns	Assistant.....	666.67
Marjorie Benoy	Graduate Assistant.....	500.00
Ernest LaRuh	Graduate Assistant.....	500.00
Gerald Wagner	Graduate Assistant.....	500.00
B. H. Gilmore	Graduate Assistant.....	500.00
Harold T. Ruff	Graduate Assistant.....	500.00

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C. T. Morris	Professor.....	5,000.00
F. H. Eno	Professor.....	4,000.00
R. C. Sloane	Professor.....	3,000.00
J. R. Shank	Professor.....	3,000.00
J. C. Merrell	Assistant Professor.....	2,250.00
J. M. Montz	Instructor.....	2,000.00
C. H. Wall	Instructor.....	1,500.00
L. L. Dickson	Assistant.....	650.00

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R. C. Sloane	Professor.....	525.00
J. C. Merrell	Assistant Professor.....	390.00
J. M. Montz	Instructor.....	375.00
C. H. Wall	Instructor.....	270.00
L. L. Dickson	Assistant.....	270.00

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ELECTRICAL ENGINEERING

F. C. Caldwell	Professor.....	4,250.00
C. A. Wright	Professor.....	3,500.00
R. A. Brown	Assistant Professor.....	2,250.00
A. F. Puchstein	Assistant Professor.....	2,500.00
J. E. Shepardson	Assistant Professor.....	2,000.00
Arthur G. Wise	Instructor.....	1,125.00
Edward F. Ferguson	Assistant.....	1,000.00
Robert Hughes	Assistant.....	1,800.00
M. F. McDowell	Radio Operator.....	1,800.00
Mrs. F. G. Charles	Program Manager.....	1,500.00
*John Menke	Assistant.....	207.00
Lloyd W. Ganschow	Instructor.....	375.00
Paul G. Edwards	Student Assistant.....	240.00
Herman L. Hartzell	Student Assistant.....	200.00
Irving A. Heeb	Student Assistant.....	200.00
Robert C. Higgy	Student Assistant.....	160.00
Otto A. Keep	Student Assistant.....	200.00
Lawrence Neeb	Student Assistant.....	200.00
Philip E. Rush	Student Assistant.....	200.00
Robert S. Winbigler	Student Assistant.....	200.00
Robert O. Loomis	Student Assistant.....	200.00
William E. Winterhalter	Student Assistant.....	200.00
Charles R. Nye	Assistant.....	78.62
John Baker	Assistant.....	248.28

ENGINEERING DRAWING

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Robert Meiklejohn	Professor.....	3,200.00
W. D. Turnbull	Professor.....	3,000.00
O. E. Williams	Assistant Professor.....	3,000.00
W. B. Field	Assistant Professor.....	2,500.00
Ralph Paffenbarger	Assistant Professor.....	2,400.00
Allen P. McManigal	Instructor.....	2,000.00
Ralph W. Dunkle	Instructor.....	2,000.00
Charles D. Cooper	Instructor.....	1,125.00
Tecla F. Haldy	Assistant.....	1,320.00
Frank H. Lee	Assistant.....	800.00
Hoyt Sherman	Student Assistant.....	300.00
Gerald P. Seegar	Student Assistant.....	200.00
Howard E. Sutton	Student Assistant.....	300.00
George E. Large	Instructor.....	1,500.00
John R. Rannels	Assistant.....	800.00
John M. Russ	Acting Assistant Professor.....	2,062.50
Leonard R. Growden	Student Assistant.....	300.00
Lewis M. Headley	Student Assistant.....	300.00
Garret D. Ehrhardt	Student Assistant.....	100.00

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W. A. Knight	Professor.....	3,000.00
C. M. Beem	Instructor.....	1,800.00
Rudolph Schneider	Instructor.....	1,800.00
U. W. Denman	Instructor.....	1,700.00
J. A. Foust	Instructor.....	1,700.00
Harold Wright	Instructor.....	1,700.00
P. L. Wright	Instructor.....	1,600.00
O. D. Rickly	Instructor.....	1,600.00
Edward A. Janning	Assistant.....	1,500.00
Ora L. Justice	Assistant.....	1,260.00
Thomas Decker	Laborer and Foundry Helper.....	720.00
Harry M. Blank	Shop Helper.....	120.00

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H. W. Kuhn	Professor.....	4,000.00
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G. W. McCoard	Professor.....	2,000.00
C. L. Arnold	Professor.....	3,000.00
James H. Weaver	Assistant Professor.....	2,750.00
Grace Bareis	Assistant Professor.....	2,000.00
Harry Beatty	Assistant Professor.....	2,000.00
J. B. Preston	Assistant Professor.....	1,800.00
Charles T. Bumer	Instructor.....	2,500.00
Hortense Rickard	Instructor.....	2,000.00
Vaughn B. Caris	Assistant Professor.....	2,000.00
Margaret Jones	Instructor.....	1,800.00
Clarice S. Hobensack	Instructor.....	1,800.00
Minona E. Bauer	Assistant.....	1,000.00
*Montgomery M. Culver	Graduate Assistant.....	166.65
*J. Dudley Dawson	Graduate Assistant.....	166.65
Horace C. Levinson	Instructor.....	600.00
Montgomery M. Culver	Assistant.....	1,000.00
J. Dudley Dawson	Assistant.....	499.99

MECHANICAL ENGINEERING

William T. Magruder	Professor.....	5,000.00
F. W. Marquis	Professor.....	3,750.00
C. A. Norman	Professor.....	3,600.00
Horace Judd	Professor.....	3,000.00
A. I. Brown	Assistant Professor.....	2,750.00
Paul Bucher	Assistant Professor.....	2,400.00
Karl W. Stinson	Instructor.....	2,166.67
George N. Moffat	Instructor.....	2,116.66
H. M. Jacklin	Instructor.....	2,100.00
R. H. Wasson	Instructor.....	1,266.66
C. P. Roberts	Instructor.....	1,175.00
Samuel R. Beitler	Instructor.....	1,166.67
John O. Harshman	Instructor.....	983.32
James O. Kennedy	Assistant.....	1,100.00
C. J. Cobb	Assistant.....	1,300.00
R. L. Pratt	Stationary Engineer.....	1,755.00
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George Richey	Laborer.....	900.00
Harry M. Bruck	Machinist.....	370.00

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E. F. Coddington	Professor.....	4,200.00
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Mervin F. Devine	Instructor.....	900.00

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W. A. Mueller	Assistant Professor.....	3,000.00
J. O. Lord	Assistant Professor.....	1,800.00
Jack E. Lucas	Student Assistant.....	270.00
Arthur E. Focke	Student Assistant.....	270.00

MINE ENGINEERING

Frank A. Ray	Consulting Director.....	1,000.00
H. E. Nold	Professor.....	3,600.00
H. D. Decker	Instructor.....	1,000.00
Mervine F. Devine	Assistant.....	220.00

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MINERALOGY

W. J. McCaughey	Professor.....	4,000.00
Clarence J. Bugbee	Student Assistant.....	240.00
Arthur M. Brant	Instructor.....	1,125.00
*Lloyd M. Davis	Student Assistant.....	60.00

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Alpheus Smith	Professor.....	4,500.00
F. C. Blake	Professor.....	4,000.00
R. F. Earhart	Professor.....	3,500.00
Howard D. Minchin	Professor Applied Optics.....	3,250.00
H. G. Heil	Assistant Professor.....	2,600.00
Alva S. Smith	Assistant Professor.....	2,400.00
D. A. Woodbury	Instructor.....	2,100.00
M. C. Davies	Instructor Applied Optics.....	2,000.00
C. W. Jarvis	Instructor.....	1,900.00
W. V. Houston	Instructor.....	1,425.00
*John S. Ward	Instructor.....	1,133.32
Fred J. Brooks	Assistant.....	1,700.00
Dean Judd	Assistant.....	900.00
Dean Judd	Assistant (Summer Quarter).....	166.66
William C. Phebus	Assistant.....	500.00
J. B. Sparrow	Assistant Custodian.....	1,200.00
Stanley M. Hanley	Graduate Assistant.....	500.00
J. Walter Sappenfield	Assistant Instructor.....	900.00
Rufus H. Snyder	Instructor.....	1,500.00
*Raymond G. Hieber	Graduate Assistant.....	166.67
*James W. Wright	Assistant.....	300.00

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Alonzo H. Tuttle	Professor.....	5,250.00
Clarence D. Laylin	Professor.....	5,250.00
*Lewis M. Simes	Professor.....	3,562.50
*Nellie J. Bair	Stenographer.....	560.00
*Louise Hanes	Stenographer.....	400.00

COLLEGE OF MEDICINE

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Charles F. Findlay	Secretary to Dean.....	2,000.00
Margaret Rose	Technical Assistant.....	1,200.00
LeEvelyn Gillam	Stenographer.....	960.00
Helen Shacklett	Stenographer.....	960.00
*Luelle Braun	Stenographer.....	75.00
Alice Maltby	Stenographer.....	900.00
*Muriel White	Stenographer.....	470.00
*Gertrude Kailes	Stenographer.....	52.00
*Kathleen Worrell	.....	268.00
*Elsie K. Lyons	Clerk.....	80.00

ANATOMY

Francis L. Landacre	Professor and Head.....	5,250.00
Edward C. Buck	Assistant Professor.....	3,000.00
Rollo C. Baker	Assistant Professor.....	3,000.00
R. A. Knouff	Assistant Professor.....	3,000.00
*Clarence I. Britt	Assistant.....	1,125.00
*Dorothy Searles	Assistant.....	900.00
Thomas Evans	Technician.....	1,100.00
*Kenneth E. Reighard	Student Assistant.....	300.00
*J. C. Bigory	Student Assistant.....	100.00
*Roland W. Jones	Student Assistant.....	300.00

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Charles B. Morrey	Professor.....	4,500.00
William A. Starin	Professor.....	3,250.00
Fred Speer	Instructor.....	2,250.00
R. F. Jukes	Instructor.....	1,600.00
*George W. Bond	Assistant.....	1,200.00
John G. McCrimmon	Assistant.....	1,500.00
Harold E. Lowery	Laboratory Assistant.....	780.00

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Solomon A. Hatfield	Assistant Professor and Superintendent of Hospital....	3,850.00
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Frank C. Wagenhals	Assistant Professor.....	500.00
Elmer G. Horton	Assistant Professor.....	500.00
John D. Dunham	Assistant Professor.....	300.00
Jacob J. Coons	Assistant Professor.....	300.00
Charles J. Shepard	Assistant Professor.....	300.00
Halbert B. Blakey	Assistant Professor.....	200.00
Joseph W. Leist	Assistant Professor.....	1,500.00
Raymond A. Ramsey	Instructor.....	400.00
John W. Sheetz	Instructor.....	300.00
E. H. Baxter	Instructor.....	300.00
William A. Pritchard	Instructor.....	200.00
Samuel D. Edelman	Assistant.....	300.00
E. F. Peinert	Assistant.....	200.00
George O. Hoskins	Instructor.....	200.00
H. A. Minthorn	Assistant.....	200.00
John P. Farson	Assistant.....	200.00
Link Murphy	Assistant.....	200.00

OBSTETRICS

Andrews Rogers	Professor and Head.....	1,250.00
Herman Koerper	Instructor.....	700.00
Roy E. Krigbaum	Assistant.....	700.00
Thomas A. Vogel	Assistant.....	150.00

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Andrew Timberman	Professor.....	300.00
George C. Schaeffer	Assistant Professor.....	400.00
Hugh G. Beatty	Assistant Professor.....	400.00
Andrew W. Prout	Assistant Professor.....	400.00
Arthur M. Hauer	Assistant Professor.....	400.00
John B. Alcorn	Instructor.....	400.00
R. Reese Williams	Instructor.....	400.00
Clarence B. Tanner	Assistant.....	400.00
Robert W. Nosker	Assistant.....	200.00
Russell G. Means	Assistant.....	200.00

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Carl Spohr	Professor of Clin. Path.....	3,500.00
Lear H. Van Buskirk	Instructor.....	1,800.00
Phillip J. Reel	Instructor.....	1,700.00
Mary H. Oliver	Instructor.....	1,600.00
Edith Miller	Instructor.....	1,500.00
Mortimer Banks	Technical Assistant.....	1,100.00
Clinton L. Bryant	Technical Assistant.....	1,100.00
Harry L. Reinhart	Assistant.....	150.00

PHYSIOLOGY

Roy G. Hoskins	Professor.....	5,250.00
A. M. Bleile	Professor.....	3,750.00

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Raymond J. Seymour	Assistant Professor.....	3,250.00
Clayton McPeck	Assistant Professor.....	2,750.00
Fred E. Hitchcock	Instructor.....	1,650.00
Edwin P. Durrant	Instructor.....	2,100.00
*Milton O. Lee	Instructor.....	1,416.66
Carl P. Effler	Technical Assistant.....	2,200.00
Paul H. Charlton	Assistant.....	1,200.00
R. R. Durant	Assistant.....	600.00
M. D. Gamble	Assistant.....	444.45

PHYSIOLOGICAL CHEMISTRY

Clayton S. Smith	Professor and Head.....	4,250.00
*Roland E. Kremers	Assistant Professor.....	1,250.00
Harry C. Powelson	Assistant.....	1,000.00
Anson L. Brown	Assistant.....	1,000.00
*Harry W. Hughes	Technician.....	769.44
John M. VanDyke	Student Assistant.....	150.00
Mildred Gardner	Student Assistant.....	225.00
*M. L. Babb	Pharmacist.....	500.00
*M. H. Powelson	Student Assistant.....	50.00
*John A. Alexander	Technician.....	213.88

PUBLIC HEALTH AND SANITATION

Emery R. Hayhurst	Professor and Head.....	3,250.00
Norma Selbert	Assistant Professor.....	2,500.00
James S. Wilson	Assistant Professor.....	1,875.00

SURGERY AND GYNECOLOGY

Charles S. Hamilton	Professor and Head.....	500.00
Verne A. Dodd	Professor.....	3,000.00
W. A. Humphrey	Professor.....	1,500.00
Yeatman Wardlow	Professor.....	300.00
Isaac B. Harris	Assistant Professor.....	300.00
Fred Fletcher	Assistant Professor.....	300.00
Leslie L. Bigelow	Assistant Professor.....	2,250.00
Edwin A. Hamilton	Assistant Professor.....	1,000.00
Hugh J. Means	Assistant Professor.....	900.00
A. M. Steinfeld	Assistant Professor.....	300.00
Luke V. Zartman	Instructor.....	700.00
John W. Means	Instructor.....	600.00
Harley O. Bratton	Instructor.....	300.00
William N. Taylor	Instructor.....	300.00
Philip E. Stiffey	Instructor.....	300.00
Holway D. Farrar	Instructor.....	200.00
Ben Kirkendall	Instructor.....	200.00
George H. Shawaker	Instructor.....	300.00
Milton Jones	Assistant.....	200.00
Wells Teachnor	Assistant.....	200.00
David B. Gilliam	Assistant.....	200.00
*Faye Irvin	Technician.....	806.13

UNIVERSITY HOSPITAL

Lucy V. Ailer	Superintendent of Nurses.....	1,500.00
Ruth K. Snowden	Assistant Superintendent of Nurses.....	1,500.00
Katherine Harris	Dietitian.....	1,500.00
Jean Anderson	Chief Nurse Operating Room.....	1,200.00
*Nettie Thomas	Chief Day Supervisor.....	100.00
*Marion Emery	Chief Night Supervisor.....	900.00
*Vera Baird	Chief Nurse Children's Ward.....	600.00
*Myrtle Van Rhoden	Night Supervisor.....	400.00
*Marjorie Rader	Superintendent Nurses' Maternity Hospital.....	300.00
Blanca S. Hambleton	Assistant Maternity Supervisor.....	600.00
Paul H. Charlton	Resident Physician.....	720.00

Loraine K. Stephens	Bookkeeper.....	1,200.00
Alice Taylor	Clerk.....	960.00
*Bertha McCormick	Chief Cook.....	300.00
*Edith W. Norris	Housekeeper.....	110.00
John Long	Orderly Operating Room.....	1,140.00
Ernest Long	Janitor.....	1,140.00
Oscar Raver	Janitor.....	1,080.00
Jessie Haney	Janitress.....	750.00
Charlotte Thum	Janitress.....	750.00
Elizabeth Rourke	Janitress.....	750.00
*Edith Hawley	Housekeeper.....	300.00
*Verna Faye McMillan	Supervising Nurse.....	720.00
*Pauline Thompson	Supervising Nurse.....	685.67
*Lowell Ruff	Assistant Pharmacist.....	450.00
*Julia Browning	Supervising Nurse.....	800.00
*Clara Dennis	Chief Cook.....	525.00
*Lille Willis	Housekeeper.....	185.48
*Mildred Hutchings	Supervising Nurse.....	276.67
*Carolyn Fritsche	Student Nurse.....	37.50
*Irene Horr	Student Nurse.....	50.00
*Pearl Houser	Student Nurse.....	37.50
*Mildred Hutchins	Student Nurse.....	25.00
*Vera McMillan	Student Nurse.....	25.00
*Georgianna Barga	Student Nurse.....	62.50
*Mary Summerfield	Student Nurse.....	62.50
*Della Pollic	Student Nurse.....	37.50
*Lula Kauble	Student Nurse.....	12.50
Edna Wright	Student Nurse.....	75.00
*Janette Taylor	Student Nurse.....	56.25
*Hilda Taylor	Student Nurse.....	18.75
*Jessie Waines	Student Nurse.....	18.75
*Ruth DeLashmutt	Student Nurse.....	25.00
Fern Zetty	Student Nurse.....	75.00
Maude Hugus	Student Nurse.....	75.00
Mildred Sutter	Student Nurse.....	75.00
Pauline Justice	Student Nurse.....	75.00
Viola Kinnison	Student Nurse.....	75.00
Edith Westervelt	Student Nurse.....	75.00
*Velma Evans	Student Nurse.....	6.25
Frieda Schacht	Student Nurse.....	75.00
May Stevenson	Student Nurse.....	75.00
*Margaret McLellan	S. tudent Nurse.....	68.75
*Jeannette Roberts	Student Nurse.....	18.75
*Deborah Hill	Student Nurse.....	62.50
*Mrs. Frances Mangold	Student Nurse.....	31.25
*Elsie Mitchell	Student Nurse.....	31.25
*Thelma Wright	Student Nurse.....	31.25
*Gertrude Nygren	Student Nurse.....	31.25
*Ada Galloway	Student Nurse.....	31.25
*Clarice Cassill	Student Nurse.....	31.25
*Florence Samson	Student Nurse.....	31.25
*Alice Swan	Student Nurse.....	6.25
*Clara Dennis	Cook.....	40.00
*Roxie Bowers	Assistant Cook.....	300.00
*Nora Massie	Seamstress.....	250.00
*Clara Howell	Cook and Dishwasher.....	221.13
*Jay Bradish	Orderly.....	125.00
*Lennia Orick	Cook.....	275.00
*E. C. Alexander	Orderly.....	125.00
*Myra Winfield	Dishwasher.....	52.26
*Vera Barnette	Maid.....	250.00
*Julia French	Dishwasher.....	225.00
*Maurine Ligon	Anaesthetist.....	500.00

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*Anna Shelton	Maid.....	143.10
*Carrie Wilson	Dishwasher.....	168.39
*Martha Morris	Dishwasher.....	200.00

COLLEGE OF PHARMACY

Claire A. Dye	Dean and Professor.....	4,500.00
Clarence M. Brown	Assistant Professor.....	2,750.00
William S. Stevens	Instructor.....	2,000.00
Charles L. Williams	Instructor.....	1,750.00
William E. Keyser	Instructor.....	900.00
Raymond J. Albert	Student Assistant.....	200.00
Leslie U. Rees	Student Assistant.....	200.00
Homer S. Blaser	Student Assistant.....	200.00
Howard A. Hines	Student Assistant.....	200.00

COLLEGE OF VETERINARY MEDICINE

David S. White	Dean and Professor.....	6,000.00
Septimus Sisson	Professor of Comparative Anatomy.....	4,500.00
Oscar V. Brumley	Professor Veterinary Surgery and Director of Clinics..	5,000.00
Leonard W. Goss	Professor of Veterinary Pathology.....	5,000.00
James D. Grossman	Professor of Veterinary Anatomy.....	3,000.00
James H. Snook	Professor of Veterinary Surgery.....	3,000.00
John N. Shoemaker	Assistant Professor.....	2,700.00
Walter R. Hobbs	Assistant Professor.....	2,700.00
Russell E. Rebrassier	Instructor.....	2,400.00
Ralph A. Hendershott	Instructor.....	1,600.00
Mabel E. Moran	Secretary to Dean.....	1,200.00
Fay G. Adams	Clerk.....	960.00
E. L. Clements	Technician.....	1,200.00
William H. Walker	Groom.....	1,200.00
*T. Harold McMurray	Groom.....	200.00
*John H. Burrell	Groom.....	200.00
*Richard Phillips	Groom.....	400.00
*Robert Millington	Groom.....	400.00

GRADUATE SCHOOL

William McPherson	Dean.....	6,000.00
Alice A. Moran	Secretary to Dean.....	1,200.00
Sherman W. Bilsing	Fellow.....	500.00
Robert J. Havighurst	Fellow.....	500.00
Ruth L. Higgins	Fellow.....	500.00
Robert Lee Morton	Fellow.....	500.00
Robert A. Osborn	Fellow.....	500.00
Nancy E. Sidwell	Fellow.....	500.00
Dwight H. Stevenson	Fellow.....	500.00
Waid Wright Tuttle	Fellow.....	500.00
Rachel Edgar	Fellow.....	300.00
Faye M. Brooke	Scholar.....	300.00
Marion W. Caskey	Scholar.....	300.00
Ralph L. Dewey	Scholar.....	300.00
Lura M. Jewell	Scholar.....	300.00
Paul H. Mautz	Scholar.....	300.00
M'Della Moon	Scholar.....	300.00
Henry F. Palmer	Scholar.....	300.00
Charles G. Stewart	Scholar.....	300.00
Harold L. Yochum	Scholar.....	300.00
Dorothy F. Porter	Scholar.....	300.00
Margaret M. Barnett	Scholar.....	300.00
John A. McClister	Scholar.....	300.00
Lloyd N. Yepson	Scholar.....	300.00
Lloyd E. Devol	Scholar.....	300.00
Siang Ceh Sung	Scholar.....	300.00
Tadashi Fujimoto	Scholar.....	300.00
Josef N. Knoll	Research Assistant.....	1,000.00

LIBRARY

Olive B. Jones	Librarian.....	3,000.00
C. W. Reeder	Reference Librarian.....	3,000.00
Maude D. Jeffrey	Reference Librarian.....	2,400.00
Gertrude Kellicott	Accession Librarian.....	2,400.00
Bertha Schneider	Head Cataloger.....	2,400.00
Dorothy I. Higgins	Cataloger.....	2,062.50
Alice D. McKee	Cataloger.....	1,600.00
*Alice D. Cruikshank	Cataloger.....	233.32
Edna E. Davis	Library Assistant.....	2,000.00
Rita M. Buxton	Library Assistant.....	1,420.00
Susan Marksbury	Library Assistant.....	1,400.00
Helen K. Laughlin	Library Assistant.....	1,320.00
Ethel M. Miller	Library Assistant.....	1,200.00
Harriet Townshend	Library Assistant.....	1,080.00
*Ruth Jones	Library Assistant.....	943.55
Miriam Beckes	Library Assistant.....	1,080.00
Adah P. Smith	Library Assistant.....	1,080.00
Ellen Michael	Library Assistant.....	1,080.00
Adelaide Hibbard	Library Assistant.....	1,080.00
Mrs. R. L. Watson	Library Assistant.....	1,200.00
*Helen A. Jones	Library Assistant.....	772.58
*Mary T. Beggs	Library Assistant.....	765.00
Marie Hopkins	Library Assistant.....	960.00
*Alice Taylor	Library Assistant.....	180.00
W. R. Janeway	Library Assistant.....	600.00
Frank K. Guthrie	Library Assistant.....	600.00
Karl D. Way	Night Assistant.....	600.00
*Harry Jeffrey	Night Assistant.....	524.19
F. M. Smith	Library Assistant.....	360.00
*James B. Myers	Library Assistant.....	60.00
*Carl H. Toreger	Library Assistant.....	300.00
Florence D. Reese	Library Assistant.....	480.00
*George L. Dixon	Library Assistant.....	270.00
*Ralph H. Klapp	Library Assistant.....	270.00
*C. G. L. Yearick	Library Assistant.....	270.00
*William Lovell	Library Assistant.....	300.33
W. C. George	Check Room Assistant.....	1,440.00
*Pauline Lehman	Library Assistant.....	270.00
*William H. Rose	Library Assistant.....	270.00
*Margaret Y. Green	Library Assistant.....	270.00
*Lola A. Shepherd	Cataloger.....	1,108.33
*Mary Brown	Library Assistant.....	180.00
*Ida Mae Hudson	Library Assistant.....	90.00
*Arthur J. Blume	Library Assistant.....	240.00
*Ralph O. Bayles	Library Assistant.....	90.00
*Harriet Chantler	Library Assistant.....	240.00
*Virginia Allen	Library Assistant.....	105.52
*Perry Parr	Library Assistant.....	240.00
*Eva Anderson	Library Assistant.....	180.00
*Eldra W. Hartley	Library Assistant.....	150.00
*Earl F. Brown	Library Assistant.....	135.52
*Robert Bruce	Library Assistant.....	160.00
*Austin B. Wilder	Library Assistant.....	160.00
*Anna M. Green	Library Assistant.....	380.00
*Francis Remley	Library Assistant.....	90.00
*Dorothy Wilkins	Library Assistant.....	128.87
*Harry Appler	Library Assistant.....	60.00
*Enno G. Fruewald	Library Assistant.....	45.48

COMMENCEMENT

Karl H. Hoenig	Director of Music.....	900.00
Earl Hopkins	Director of Orchestra.....	299.66

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MILITARY SCIENCE

Grosvenor L. Townsend	Commandant.....	500.00
Wylie T. Conway	Assistant Professor.....	250.00
John N. Hauser	Assistant Professor.....	250.00
James A. Code	Assistant Professor.....	250.00
Louis A. Kunzig	Assistant Professor.....	250.00
Paul A. Barry	Assistant Professor.....	250.00
R. C. Birmingham	Assistant Professor.....	250.00
Paul M. Ellis	Assistant Professor.....	250.00
Edward G. Herlihy	Assistant Professor.....	250.00
George E. Jacobs	Assistant Professor.....	250.00
Carlisle B. Cox	Assistant Professor.....	250.00
Clell B. Perkins	Assistant Professor.....	250.00
R. D. Delehanty	Assistant Professor.....	250.00
Desmond O'Keefe	Assistant Professor.....	250.00
Lewis B. Hershey	Assistant Professor.....	250.00
James C. Welch	Assistant Professor.....	250.00
Harry R. Beery	Assistant Professor.....	250.00
Lester C. Ogg	Assistant Professor.....	250.00
Robert L. Tavenner	Assistant Professor.....	250.00
Gustav Bruder	Band Leader.....	500.00
Jacqueline Ulmer	Stenographer.....	960.00
Helen Mendenhall	Stenographer.....	960.00
Otto Jay Swisher	Cadet Officer.....	4,180.50
*Samuel H. Ruggles	Cadet Colonel.....	50.00
Hiram G. Fry	Assistant Professor.....	100.00

PHYSICAL EDUCATION

L. W. St. John	Professor.....	5,000.00
J. H. Nichols	Professor.....	5,500.00
J. W. Wilce	Professor.....	2,500.00
F. R. Castleman	Professor.....	1,500.00
Samuel H. Cobb	Assistant Professor.....	2,700.00
George M. Trautman	Assistant Professor.....	1,000.00
Bernard F. Mooney	Instructor.....	1,500.00
Glenn H. Alexander	Instructor.....	1,575.00
V. R. Billingsley	Secretary of Department.....	1,800.00
Henry D. Taylor	Alumni Recorder.....	1,500.00
R. M. Greuninger	Student Assistant.....	600.00
Allison W. Marsh	Instructor.....	600.00
H. C. Olsen	Instructor.....	500.00
Alvin U. Bachman	Student Assistant.....	350.00
Walter L. Pemberthy	Student Assistant.....	250.00

PHYSICAL EDUCATION—WOMEN'S DIVISION

Lydia Clark	Professor.....	3,375.00
Gertrude F. Jones	Medical Adviser.....	2,100.00
Gladys Palmer	Assistant Professor.....	2,300.00
Ester Gilman	Instructor.....	1,650.00
Katherine Hersey	Instructor.....	1,500.00
Dorothy Sumption	Instructor.....	1,750.00
Margaret Cheney	Instructor.....	1,200.00
Alma Vulp	Pianist.....	800.00
Elizabeth Borger	Student Assistant.....	300.00
Yolanda S. Allen	Instructor.....	375.00
Anne Bierman	Stenographer.....	320.00
Louise Ortman	Maid.....	720.00
Emma Thomas	Maid.....	300.00
Helen Garrett	Pianist.....	150.00
Nellie Kramer	Stenographer.....	640.00
Emily Clayton	Maid.....	360.00

PRESIDENT'S OFFICE

Katherine A. Vogel	Executive Clerk.....	2,000.00
Margaret Morrison	Stenographer.....	1,200.00
Edith M. Auch	Auditor Student Organizations.....	600.00
*John J. Adams	Acting President.....	750.00
*William McPherson	Acting President.....	396.55

BUSINESS MANAGER'S OFFICE

Carl E. Steeb	Secretary of Board of Trustees and Business Manager...	6,000.00
*Arminie L. Shields	Chief Clerk.....	525.00
*Ina Shirk	Chief Clerk.....	867.10
R. M. Royer	Purchasing Agent.....	3,600.00
Mary E. Duffy	Stenographer.....	1,200.00
*Rosanne Gilmore	Bookkeeper.....	360.00
Helena Sands	Typist.....	960.00
Charles A. Kuntz	Comptroller.....	3,600.00
Floris D. Hane	Cashier.....	1,680.00
*Dorothy Lewis	Assistant Cashier.....	420.00
Mary Kraus	Auditor.....	1,800.00
Anna O'Rourke	Stenographer.....	1,200.00
*Helen Myers	Clerk.....	320.00
Gladys Steele	Stenographer.....	900.00
Florence Naille	Bookkeeper.....	1,800.00
Catherine Cottingham	Clerk.....	1,080.00
Ruth E. Waters	Assistant Cashier.....	1,065.00
Mildred Scott	Inventory Clerk.....	1,020.00
*Jennie B. Cornman	Clerk.....	232.26
*Blanche Gillespie	Clerk.....	457.90
*Dorothy Mills	Clerk.....	400.00
*Margaret Gooch	Typist.....	75.00
Hugh Hardy	Clerk.....	1,500.00
G. J. Hoesch	Clerk.....	1,260.00
Ernest Ford	Mail Carrier.....	1,260.00

REGISTRAR'S OFFICE

Edith D. Cockins	Registrar, University Editor, and Secretary of Faculty..	3,600.00
Helen Clarke	Assistant Registrar.....	2,100.00
Esther Funk	Assistant to Registrar.....	420.00
Frances Rannells	Assistant to Registrar.....	1,200.00
Margaret Jerman	Assistant to Registrar.....	960.00
Virginia Michel	Assistant to Registrar.....	1,300.00
Frances Dick	Assistant to Registrar.....	1,110.00
*Anne McNaughten	Assistant to Registrar.....	880.00
Florence Shride	Assistant to Registrar.....	990.00
*Katherine Ferris	Assistant to Registrar.....	480.00
Bonnie Woodbury	Chief Transcript Clerk.....	1,300.00
Elizabeth Richards	Assistant to Registrar.....	1,080.00
Ethyl Woodbury	Chief Schedule Clerk.....	1,700.00
Miriam Cherry	Assistant to Registrar.....	960.00
Jean Kellenberger	Assistant to Registrar.....	960.00
Clara Miller	Assistant University Editor.....	1,800.00
*Margaret Bain	Assistant to Registrar.....	170.00
*Elizabeth Allen	Assistant to Registrar.....	720.00
*Mildred Mills	Assistant to Registrar.....	80.00
*Janet French	Assistant to Registrar.....	80.00
*Florence Woodrow	Assistant to Registrar.....	160.00

ENTRANCE BOARD

B. L. Stradley	Assistant Professor of Education and Univ. Exam.....	3,000.00
Mary E. Morris	Clerk.....	1,500.00
Bessie Plummer	Stenographer.....	960.00
*Helen F. Powell	Stenographer.....	80.00
*Sarah Meriam	Stenographer.....	400.00

DEAN OF WOMEN

Elisabeth Conrad	Dean of Women.....	3,500.00
Jessica Foster	Assistant Dean of Women.....	1,500.00
*Beatrice Babb	Secretary.....	786.77
*Ernestine Cookson		300.00
*Margaret Dillingham		75.00
*Katherine Adams		500.00
*Frances Rundo	Stenographer.....	293.23

STUDENT HEALTH SERVICE

H. S. Wingert	Director.....	4,500.00
Richard Kimpton	Assistant Director.....	2,250.00
E. Marguerite Kutz	Nurse.....	1,700.00
Maude M. Eckhardt	Clerk.....	1,200.00

STORES AND RECEIVING

F. E. Jones	Director.....	2,750.00
James Lawson	Checking Clerk.....	1,500.00
*Lester Feyen	Laborer.....	270.00
Mabel Clum	Record Clerk and Typist.....	1,200.00
*Henrietta Lahmering		20.32
Lee Ball	Laborer.....	540.00
Kenneth K. Edgar	Laborer.....	180.00

PHYSICAL PLANT DIVISION

ENGINEER'S OFFICE

William C. McCracken	Superintendent Buildings and Grounds and Chief Engr..	5,000.00
Earl R. Cohee	Clerk.....	1,500.00
*Claire Elk	Stenographer.....	1,105.80

LIGHT, HEAT, AND POWER

*J. F. Dill	Fireman.....	648.14
*Mike Yeager	Steamfitter.....	1,357.42
*Frank Asher	Fireman.....	1,120.00
*William Richardson		40.00
*F. W. Kinder		200.00
*Charles Dick	Fireman.....	651.72
*Charles Pinney	Laborer.....	160.00
*Otto Reeves	Laborer.....	80.00
*J. F. Dill	Engineer.....	657.41
*Harry Cashien	Laborer.....	280.00
*F. A. Moore	Laborer.....	280.00
*Domonick Capretta	Laborer.....	280.00
Thomas D. Banks	Superintendent of Power Plant.....	3,800.00
John P. CoVan	Master Mechanic.....	2,400.00
W. H. Case	Assistant Chief Engineer.....	2,040.00
Fred Brewer	Engineer.....	1,860.00
W. D. Hicks	Engineer.....	1,860.00
*R. M. Ronk	Engineer.....	465.00
S. Lowery	Fireman.....	1,680.00
*P. E. McCoy	Fireman.....	433.55
Lawrence Mack	Fireman.....	1,680.00
*George Grover	Fireman.....	980.00
William Anderson	Craneman.....	1,920.00
N. Ivan Paschall	Drag Line Operator.....	1,842.58
R. A. Bowers	Helper.....	1,500.00
*Charles G. Mercer	Laborer.....	496.45
Irwin Walker	Wiper.....	1,080.00
I. C. Reasoner	Blacksmith.....	1,620.00
Charles Reasoner	Blacksmith Helper.....	1,200.00
George E. Shepherd	Steam Fitter.....	2,040.00

*James Mack	Steam Fitter.....	577.42
*C. M. Shepherd	Steam Fitter's Helper.....	1,050.00
George Dillahunt	Electrician.....	1,920.00
Earl Achey	Assistant Electrician.....	1,680.00
C. T. Fippin	Assistant Electrician.....	1,620.00
B. A. LeBay	Boiler Repair Man.....	1,620.00
A. O. Kaiser	Auto Mechanic and Helper.....	1,800.00
Thomas Scott	Ash Wheeler.....	920.00
J. A. Colvin	Ash Wheeler.....	920.00
*Robert Sams	Ash Wheeler.....	280.00
James Bailey	Ash Wheeler.....	760.00
W. H. Kear	Ash Wheeler.....	880.00
Thos. B. Clark	Ash Wheeler.....	760.00
*William Evans	Steam Fitter's Helper.....	105.00
*P. E. McCoy	Engineer.....	722.59
David Edwards	Fireman.....	99.35

BETTERMENT OF BUILDINGS

John Kraner	Carpenter.....	2,220.00
E. I. Martin	Carpenter.....	1,920.00
Philo Felker	Carpenter.....	1,920.00
Charles Blesch	Carpenter.....	1,920.00
R. C. Kaiser	Plumber.....	2,400.00
E. Inscho	Plumber's Helper.....	1,800.00
S. R. Sher	Heat Regulating Man.....	1,650.00
Max Lehman	Painter.....	1,500.00
James Brain	Painter.....	1,260.00
Ellwood Stephenson	Painter.....	1,100.00
G. Davis	Painter's Helper.....	598.07
H. R. Johnson	Tinner.....	1,720.00
C. D. Lowry	Laborer.....	1,133.87
Ralph Bobb	Plumber's Assistant.....	1,500.00
*R. A. Jennings	Painter.....	732.90
*Glen O. Davis	Painter.....	500.00
*Rodrick Farley	Painter's Helper.....	450.00
*Thomas Graham	Plumber.....	840.00
*Wm. R. Evans	.....	66.67
*Fred M. Dustman	Painter.....	210.00

ROADS AND GROUNDS

Earl Bilderback	Foreman of Campus.....	1,680.00
Frank Funk	Arborator.....	1,260.00
Harold Esper	Laborer.....	744.00
John Rhone	Teamster.....	1,080.00
J. Fredo	Laborer.....	1,080.00
L. Stewart	Laborer.....	1,080.00
J. Hobert	Laborer.....	1,080.00
J. Stainbrook	Laborer.....	1,080.00
B. E. Stahl	Laborer.....	1,036.45
A. Chesbro	Laborer.....	1,080.00
Leo Moran	Truck Driver.....	1,140.00
*M. T. Barrett	Laborer.....	285.00
*Robert Farrell	Laborer.....	576.33
*Robert Dunn	.....	190.00

POLICE AND WATCHMEN

William North	Day Policeman.....	1,440.00
H. S. Brown	Night Policeman.....	1,350.00
Charles G. Kalb	Traffic Officer.....	1,260.00
C. F. Reasoner	Supervisor of Watchmen.....	1,260.00
H. B. Case	Night Watchman.....	1,260.00
Alphonso Case	Night Watchman.....	1,260.00
O. D. Conaway	Night Watchman.....	1,260.00

Charles C. Clayton	Night Watchman.....	1,260.00
Thomas Bortle	Night Watchman.....	1,260.00
H. M. Cole	Night Watchman.....	1,260.00
J. T. Daniels	Night Watchman.....	480.00
W. F. Mahaffey	Night Watchman.....	480.00

JANITORS

John O'Rourke	Inspector of Buildings and Janitors.....	1,500.00
C. M. Hicks	Repair and Handy Man.....	1,200.00
Walter Penn	Janitor.....	1,140.00
W. H. Stahl	Janitor.....	1,140.00
William Daehler	Janitor.....	1,140.00
Harry Chantler	Janitor.....	1,140.00
John Tordiff	Janitor.....	1,140.00
A. D. Grayson	Janitor.....	1,140.00
S. A. Williams	Janitor.....	1,140.00
R. M. Moore	Janitor.....	1,140.00
*George C. Denny	Janitor.....	950.00
Oliver Smith	Janitor.....	1,140.00
L. F. Jordan	Janitor.....	1,140.00
J. C. Ludlum	Janitor.....	1,140.00
W. Curry	Janitor.....	1,140.00
W. S. Smith	Janitor.....	1,140.00
Dan Brock	Janitor.....	1,140.00
Robert Petrie	Janitor.....	1,140.00
G. P. Royston	Janitor.....	1,140.00
Olaf Christianson	Janitor.....	1,140.00
J. R. Butler	Janitor.....	1,140.00
L. S. Hitchcock	Janitor.....	1,140.00
C. M. Shelton	Janitor.....	1,140.00
Forest Spencer	Janitor.....	1,140.00
*J. O. Kimrough	Janitor.....	380.00
Elmer E. Smith	Janitor.....	1,140.00
C. A. Hopkins	Janitor.....	1,140.00
Robert Dunn	Janitor.....	950.00
G. R. Pettibone	Janitor.....	1,140.00
Elmer McDowell	Janitor.....	1,140.00
M. Murphy	Janitor.....	1,140.00
John M. Wallace	Janitor.....	1,140.00
Edward Watson	Janitor.....	1,140.00
Floyd Grayem	Janitor.....	1,140.00
F. C. Radford	Janitor.....	1,140.00
Willis Abott	Janitor.....	1,140.00
George Wilson	Janitor.....	1,140.00
M. N. Cook	Janitor.....	1,080.00
J. W. Brown	Janitor.....	1,080.00
William Goff	Janitor.....	1,080.00
James Merrill	Janitor.....	1,080.00
E. J. Nutt	Janitor.....	1,080.00
C. A. Hopper	Janitor.....	1,080.00
Louis Trotter	Janitor.....	1,080.00
James Gormley	Janitor.....	1,080.00
H. Clemons	Janitor.....	1,080.00
M. F. Cooney	Janitor.....	1,080.00
*Clarence Eaton	Janitor.....	740.30
George E. Whitmer	Janitor.....	1,080.00
*Lot Galloway	Janitor.....	219.00
James E. Harrington	Janitor.....	1,080.00
D. S. Gordon	Janitor.....	1,080.00
A. L. Robison	Janitor.....	1,080.00
William Jones	Janitor.....	1,080.00
*R. G. Glenn	Janitor.....	496.45
Clara Derflinger	Janitress.....	840.00

Della Lee	Janitress.....	780.00
Lou Cornett	Janitress.....	780.00
Cora Paulsell	Janitress.....	780.00
Mary Powers	Matron Rest Room.....	780.00
M. S. Harvey	Elevator.....	660.00
Richard Branden	Janitor.....	480.00
*James S. Conway	Janitor.....	244.84
*Charles Lyons	Janitor.....	760.00
*David L. James	Janitor.....	540.00
*Joseph P. Dickson	Janitor.....	333.87
*William Maberry	Janitor.....	215.33
*Arch F. Thomas	Janitor.....	148.06

LAUNDRY

Myrtle Faught	Laundress.....	1,140.00
Bert Faught	Lauderer.....	900.00
Dolly Gray	Laundress.....	780.00
Clara Williams	Laundress.....	780.00
Jennie Roberts	Laundress.....	780.00
*Anna Krone	Laundress.....	358.55
*Clara Arthur	Laundress.....	358.55

UNIVERSITY ARCHITECT

J. N. Bradford	University Architect.....	3,700.00
H. F. Reichard	Chief Draftsman.....	3,200.00
C. F. Mayer	Draftsman.....	2,800.00
P. E. Crider	Draftsman.....	2,330.83
A. H. Mickey	Superintendent of Construction.....	2,700.00
Elsie F. Edwards	Clerk.....	1,200.00

UNIVERSITY CHEMIST

D. J. Demorest	University Chemist.....	500.00
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DENTAL CLINIC

Frank C. Starr	Instructor.....	1,100.00
Earl G. Jones	Instructor.....	1,000.00
Webster M. Baker	Instructor.....	900.00
Wendell D. Postle	Demonstrator.....	1,125.00
Harvey C. Highmar	Demonstrator.....	1,125.00
*Katherine L. Pugh	Stenographer.....	350.00
Allie F. Harness	Clerk.....	1,000.00
Jocelyn Gillam	Clerk.....	960.00
Sue Merrill	Janitress.....	600.00
Eugene M. Riel	Assistant.....	200.00
Virginia L. Moore	Stenographer.....	720.00

FARM ROTARY

Blanche Gillespie	Clerk.....	560.00
Louise Derrer	Stenographer.....	178.06
*E. C. Haughn	Mechanic.....	30.00
*Frances Garden	Stenographer.....	260.65

LANTERN

Clara Baker	Bookkeeper.....	1,200.00
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VETERINARY CLINIC

*W. C. Weil	Laborer.....	706.67
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UNIVERSITY HOSPITAL

*Clara Dennis	Assistant Cook.....	340.00
*Roxie Bowers	Assistant Cook.....	365.00
*Thelma Seymour	Dining Room Girl.....	45.00
*Mary Bass	Diet Kitchen Girl.....	200.00

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*Nora Massie	Seamstress.....	350.00
*Clara Howell	Cook and Dishwasher.....	350.00
*Lennia Orick	Cook.....	385.00
*Carrie Taylor	Dishwasher.....	135.00
*Jay Bradish	Orderly.....	175.00
*E. C. Alexander	Orderly.....	175.00
*Myra Winfield	Dishwasher.....	315.00
*Grace Millner	Maid.....	250.00
*Vera Barnette	Maid.....	150.00
*Roberta Thomas	Dishwasher.....	45.00
*Julia French	Dishwasher.....	45.00
*Maurine Ligon	Anaesthetist.....	100.00
*Clara Dennis	Cook.....	8.00

UNIVERSITY PRESS

R. W. Hodgson	Compositor.....	2,288.00
*Charles H. Davis	Compositor.....	1,092.00
C. D. Kalb	Compositor.....	2,184.00
George Maggione	Compositor.....	2,184.00
W. R. Stephens	Compositor.....	2,184.00
G. F. Rodocker	Pressman.....	2,080.00
W. J. Monroe	Pressman.....	2,080.00
*Sue K. Brown	Feeder and Binder.....	677.83
Charles W. Thompson	Foreman of Bindery.....	2,288.00
Clara B. Harding	Bindery Woman.....	1,299.99
Anna B. Logan	Bindery Woman.....	988.00
Clyde J. Hodgson	Apprentice.....	1,164.80
Gladys Kavanagh	Stenographer.....	960.00
*William Taylor	Bookbinder.....	1,638.00
*Frank A. Huff	Compositor.....	1,092.00
*Ella Falkenbach	Library Bindery.....	247.00
*J. Verne Jenkins	Linotype Operator.....	572.00

WAREHOUSE—RECEIVING DEPARTMENT, AND GENERAL STORES

F. E. Jones	Director (part salary).....	500.00
Blanche Sullivan	Clerk.....	1,500.00
Earl Conway	Stock Clerk.....	1,400.00
Charles Pugh	Stock Clerk.....	1,080.00
J. R. Remy	Tool Room and Shipping.....	1,200.00
D. R. Masters	Small Animal Keeper.....	1,140.00
*Noel Martin	Laborer.....	425.00
H. O. Baker	Laborer.....	1,050.97
Leona Goetschins	Clerk.....	896.77
Lee Ball	Laborer.....	90.00
Frank Langworthy	Laborer.....	510.00

LABORATORY SUPPLY STORE

C. W. McClintock	Storekeeper.....	2,750.00
H. W. Miller	Pharmacist.....	2,000.00
L. S. Gormley	Pharmacist.....	2,000.00
Frank D. Brill	Pharmacist.....	2,000.00
M. L. Babb	Pharmacist.....	1,500.00
R. B. Leonard	Glass Blower.....	1,900.00
H. L. Allison	Helper.....	1,300.00
Frank Westervelt	Helper.....	1,080.00
*Kenneth Allison	Helper.....	240.00
*Clara Fleischer	Clerk.....	1,020.00
*Arlene M. Ebenhack	Clerk.....	600.00
*Robert Dowd	Laborer.....	720.00

AGRICULTURAL EDUCATION—SMITH-HUGHES BUDGET

W. F. Stewart	Professor.....	1,375.00
H. W. Nisonger	Assistant Professor.....	2,841.67
H. G. Kenestrick	Assistant Professor.....	2,383.34

THE OHIO STATE UNIVERSITY

W. F. Bruce	Instructor.....	2,438.34
A. C. Kennedy	Instructor.....	2,346.67
J. B. McClelland	Instructor.....	2,291.67
E. O. Bolender	Instructor.....	2,328.34
C. F. Christian	Instructor.....	2,328.34
*Mary J. Hunter	Stenographer.....	80.00
*Catherine M. McKinty	Stenographer.....	72.26
*Mary Schimmel	Stenographer.....	640.00

HOME ECONOMICS—SMITH-HUGHES

Maude G. Adams	Professor (part time).....	1,650.00
Henrietta Gromme	Assistant Professor.....	2,475.00
Clara Bancroft	Instructor.....	1,925.00
Almeda Jones	Instructor.....	1,833.34
Jane Hinkley	Instructor.....	2,016.67
Hazel Huston	Instructor.....	1,925.00
Marie Kuglen	Stenographer.....	1,045.00

VOCATIONAL EDUCATION—SMITH-HUGHES

D. J. MacDonald	Professor.....	4,033.36
L. A. Flagler	Assistant Professor.....	3,300.00
R. W. Jenkins	Instructor.....	2,291.67
*Hedwig R. Keller	Secretary.....	108.33
*Eloise Terbruggan	Secretary.....	760.00
*Marian McComas	Stenographer.....	39.84

APPENDIX IV

THE WORK OF INSTRUCTORS—1923-1924

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
ACCOUNTING												
Elements of Accounting.....	401	5	28	401	5	211	401	5	138	401	5	106
Elements of Accounting.....	402	5	22	402	5	82	402	5	152	402	5	94
Principles of Accounting.....	601	5	24	601	5	51	601	5	42	601	5	55
Principles of Accounting.....	602	5	18	602	5	28	602	5	25	.....	.....	.....
Cost Accounting.....	.....	.....	.....	603	3	31	603	5	54	.....	.....	.....
Cost Accounting.....	.....	.....	.....	.....	.....	.....	604	3	26	604	3	51
Problems in Cost Accounting.....	.....	.....	.....	605	3	7	.....	.....	.....	.....	.....	.....
Institutional Accounting.....	.....	.....	.....	.....	.....	.....	606	5	15	.....	.....	.....
Auditing .....	.....	.....	.....	607	2	37	.....	.....	.....	.....	.....	.....
Auditing .....	.....	.....	.....	.....	.....	.....	608	2	32	.....	.....	.....
Income Tax Accounting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	611	2	43
Constructive Accounting.....	.....	.....	.....	612	4	33	.....	.....	.....	.....	.....	.....
Accounting Practice.....	.....	.....	.....	.....	.....	.....	613	4	37	.....	.....	.....
Business Statements.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	616	3	74
Managerial Accounting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	617	3	19
Research in Accounting.....	.....	.....	.....	801	1-5	5	802	1-5	1	.....	.....	.....
Research in Accounting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	803	1-5	2
Total .....	.....	.....	92	.....	.....	485	.....	.....	521	.....	.....	444
AGRICULTURAL CHEMISTRY												
General Agricultural Chemistry.....	401	5	5	.....	.....	72	.....	.....	.....	.....	.....	60
Household Chemistry.....	402	5	.....	.....	.....	.....	.....	.....	120	.....	.....	.....
Household Chemistry.....	403	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
General Biological Chemistry.....	601	5	11	.....	.....	12	.....	.....	.....	.....	.....	.....
Food Inspection and Analysis.....	602	5	.....	.....	.....	3	.....	.....	.....	.....	.....	.....
Food Inspection and Analysis.....	603	5	.....	.....	.....	.....	.....	.....	3	.....	.....	.....
Dairy Chemistry.....	604	5	.....	.....	.....	4	.....	.....	.....	.....	.....	.....
Dairy Chemistry.....	605	5	11
Dairy Chemistry.....	606	5	7

THE WORK OF INSTRUCTORS—1923-1924—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Chemistry of Food and Nutrition.....	607	5	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
Animal Nutrition.....	608	5	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
Plant Chemistry.....	801	5	.....	.....	.....	.....	.....	.....	4	.....	.....	.....
Special Problems.....	802	5	2	.....	.....	3	.....	.....	1	.....	.....	12
Research.....	803	5	3	.....	.....	4	.....	.....	3	.....	.....	4
Seminary.....	804	1	.....	.....	.....	5	.....	.....	4	.....	.....	6
AGRICULTURAL EDUCATION												
Teaching of Vocational Agriculture in Secondary Schools.....	401	5	10	401	5	8	401	5	12	401	5	6
Observation of the Teaching of Vocational Agriculture.....	.....	.....	.....	402	5	14	402	5	10	402	5	9
Supervised Teaching of Vocational Agriculture.....	.....	.....	.....	403	5	14	403	5	10	403	5	9
Special Methods of Teaching Vocational Agriculture in Secondary Schools.....	601	5	18	601	5	1	601	5	7	601	5	16
Agricultural Education and the Vocational Educational Movement.....	603	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Special Problems.....	801	3-5	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
AGRICULTURAL ENGINEERING												
Field Machinery.....	.....	.....	.....	.....	.....	.....	400	5	40	.....	.....	.....
Field Machinery.....	.....	.....	.....	401	5	33	401	5	40	401	5	12
Plan Reading.....	.....	.....	.....	402	2½	85	402	2½	46	.....	.....	.....
Advanced Plan Reading.....	403	3	4	.....	.....	.....	403	3	20	.....	.....	.....
Farm Motors and Tractors.....	.....	.....	.....	.....	.....	.....	404	5	30	404	5	12
Farm Utilities.....	405	3	4	.....	.....	.....	405	3	15	.....	.....	.....
Household Mechanics.....	.....	.....	.....	406	5	51	406	5	40	.....	.....	.....
Special Problems.....	601	3	1	601	3	12	601	3-5	7	601	3-5	11
Farm Structures.....	602	5	3	602	5	6	.....	.....	.....	.....	.....	.....
Advanced Farm Power and Power Machinery.....	.....	.....	.....	603	5	12	.....	.....	.....	.....	.....	.....
Drainage.....	.....	.....	.....	604	5	0	.....	.....	.....	604	5	16
Advanced Field Machinery.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	605	3	24
AMERICAN HISTORY												
History of the United States (1763-1837)....	301	3	20	.....	.....	.....	.....	.....	.....	.....	.....	.....
Political Parties in the United States.....	305	2	11	.....	.....	.....	.....	.....	.....	.....	.....	.....
History of the United States (1763-1840)....	401	5	54	401	5	401	401	5	237	401	5	156

History of the United States (1840-1921)....	402	5	23	402	5	120	402	5	290	402	5	206
General Survey of United States History (1763-1850).....	.....	.....	.....	403	5	39	.....	.....	.....	403	5	12
General Survey of United States History (1850-1922).....	404	5	13	.....	.....	.....	404	5	33	.....	.....	.....
Political Parties in United States.....	405	5	13	405	5	25	.....	.....	.....	.....	.....	.....
Colonial Period of Latin America.....	.....	.....	.....	.....	.....	.....	408	5	20	.....	.....	.....
History of the Latin-American Republics.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	409	5	50
The Pioneer in American History.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	410	5	36
The History of Ohio.....	412	3	34	.....	.....	.....	412	3	32	.....	.....	.....
Introduction to Historical Research.....	601	3	7	601	3	11	.....	.....	.....	.....	.....	.....
American Diplomacy to close of Civil War.....	606	3	7	606	3	20	.....	.....	.....	.....	.....	.....
American Diplomacy since Civil War.....	.....	.....	.....	.....	.....	.....	607	3	36	.....	.....	.....
Recent History of United States (1875-1898).....	608	5	21	608	5	35	.....	.....	.....	.....	.....	.....
Recent History of United States (1898-1923).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	609	5	57
The Teaching of American History.....	.....	.....	.....	610	3	25	.....	.....	.....	.....	.....	.....
Influence of Racial Groups on the History of the United States.....	611	5	10	611	5	34	.....	.....	.....	.....	.....	.....
Influence of the Westward Movement in Amer- ican History to 1812.....	.....	.....	.....	.....	.....	.....	612	3	18	.....	.....	.....
Influence of the Westward Movement in Amer- ican History since 1812.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	613	3	23
Special Problems: Recent American History..	.....	.....	.....	803	3	3	.....	.....	.....	.....	.....	.....
Special Problems: in Westward Movement.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	805	3	2
Special Problems: in Recent History of the South.....	.....	.....	.....	.....	.....	.....	809	3	2	.....	.....	.....
Great American Historians.....	.....	.....	.....	.....	.....	.....	811	3	5	.....	.....	.....
ANATOMY												
Comparative Anatomy (Arts).....	.....	.....	.....	401	5	5	402	5	18	.....	.....	.....
Comparative Anatomy (Physical Education).....	.....	.....	.....	401	5	7	.....	.....	.....	413	5	2
Comparative Anatomy (Pre-medical).....	406	5	23	.....	.....	.....	406	5	112	407	5	72
Comparative Vertebrate Embryology.....	.....	.....	.....	403	5	9	404	5	9	.....	.....	.....
Elementary Neurology.....	.....	.....	.....	408	5	5	409	5	3	.....	.....	.....
Anatomy of the Frog.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	405	5	3
Visceral Anatomy.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	410	3	10
Microscopic Technique.....	.....	.....	.....	.....	.....	.....	411	5	7	.....	.....	.....
Human Dissection (Physical Education).....	.....	.....	.....	.....	.....	.....	412	5	6	.....	.....	.....
Comparative Anatomy (Cat).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Histology (Veterinary).....	.....	.....	.....	.....	.....	.....	421	5	16	.....	.....	.....
Embryology (Veterinary).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	422	5	8
Human Anatomy (Dental & Applied Optics).....	.....	.....	.....	431	5	70	432	5	55	433	5	57
History & Embryology (Dental & App. Optics)	.....	.....	.....	434	3	42	435	3	32	436	4	29
Anatomy of the Eye (Applied Optics).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	437	3	9
Comparative Neurology.....	.....	.....	.....	.....	.....	.....	607	5	.....	.....	.....	.....
Cytology.....	.....	.....	.....	.....	.....	.....	611	5	4	612	5	4
Human Anatomy (Medical).....	.....	.....	.....	621	5	78	622	5	76	623	5	75
Histology (Medical).....	.....	.....	.....	624	5	85	.....	.....	.....	.....	.....	.....
Embryology (Medical).....	625	5	11	625	5	72

THE WORK OF INSTRUCTORS—1923-1924—Continued

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Advanced Human Anatomy.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	628	5	12
Topographical Anatomy.....	.....	.....	.....	627	5	73	.....	.....	.....	.....	.....	.....
Human Anatomy (Nurses No. Number).....	.....	.....	.....	.....	3	8	.....	.....	.....	.....	.....	.....
Advanced Comparative Anatomy.....	.....	.....	.....	604	5	3	605	5	2	606	5	12
ANIMAL HUSBANDRY												
Swine Production and Management.....	603	5	12	.....	.....	.....	.....	.....	.....	603	5	48
Elementary Livestock Judging.....	.....	.....	.....	401	5	75	401	5	39	401	5	50
Feeding Livestock.....	.....	.....	.....	402	5	48	402	5	22	402	5	13
Horse Production and Management.....	.....	.....	.....	.....	.....	.....	601	5	20	.....	.....	.....
Beef Cattle Production and Management.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	602	5	24
Dairy Cattle Production and Management.....	.....	.....	.....	604	5	21	.....	.....	.....	.....	.....	.....
Sheep Production and Management.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	605	5	13
Advanced Livestock Judging.....	.....	.....	.....	606	5	17	.....	.....	.....	.....	.....	.....
Meats and Meat Products.....	.....	.....	.....	.....	.....	.....	607	5	9	.....	.....	.....
Livestock Markets and Marketing.....	.....	.....	.....	608	5	14	.....	.....	.....	.....	.....	.....
Breeding Livestock.....	.....	.....	.....	.....	.....	.....	609	5	46	.....	.....	.....
Special Problems.....	610	3-15	.....	610	3-15	7	610	3-15	5	610	3-15	12
Research.....	801	3-15	.....	801	3-15	.....	801	3-15	.....	801	3-15	.....
APPLIED OPTICS												
Theoretical Optics.....	.....	.....	.....	401	5	10	402	5	10	403	5	11
Theoretical Applied Optics.....	.....	.....	.....	421	3	11	422	3	9	423	3	9
Vision Optics.....	.....	.....	.....	411	4	11	412	4	11	413	4	11
Mechanical Optics.....	.....	.....	.....	431	2	10	432	2	10	433	2	10
Chemical Laboratory.....	.....	.....	.....	441	5	10	442	5	10	443	5	10
ASTRONOMY												
General Astronomy.....	401	5	14	402	5	17	401	5	79	401	5	88
General Astronomy.....	402	.....	.....	401	5	110	402	5	105	402	5	72
Practical Astronomy.....	.....	.....	.....	601	3	43	.....	.....	.....	.....	.....	.....
Geodesy and Least Squares.....	.....	.....	.....	.....	.....	.....	602	3	47	.....	.....	.....
Advanced Astronomy.....	607	5	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	.....	.....	15	.....	.....	170	.....	.....	231	.....	.....	160

BACTERIOLOGY

Bacteriology for Pharmacy Students.....	402									3	88
Veterinary Bacteriology.....				431	5	5					
Veterinary Bacteriology.....							432	5	10		
Dental and Applied Optics.....										450	29
General Bacteriology.....	607	5	32	607	5	139				607	30
Pathogenic Bacteriology (Lectures).....	608	5	14				608	3	40		
Pathogenic Bacteriology (Laboratory).....							609	3	40		
Dairy Bacteriology (Lectures).....							610	3	9		
Water Bacteriology (Lectures).....							614	3	2		
Serum Therapy (Lectures).....										617	63
Serum Therapy (Laboratory).....										618	18
Pathogenic Protozoa.....				619	3	27				619	18
Special Technic in Pathogenic Bacteriology.....	627	5	1	625	5	14	626	5	13	627	6
Medical Bacteriology.....				641	5	47	642	3	53		
Research in Pathogenic Bacteriology.....				801	5	1	802	5	2	803	3
Bacteriology for Nurses.....		3	3					3	8		

BOTANY

General Botany (1).....	401	5	42	401	5	447	401	5	165	401	5	196
General Botany (2).....	402	5	21	402	5	104	402	5	447	402	5	164
Local Flora.....										406	5	17
Plant Physiology (1).....	415	5	9	415	5	35						
Plant Physiology (2).....							416	5	36			
General Plant Pathology.....	419	5	12	419	5	29				419	5	13
Economic Plant Geography.....	423	3	5									
Teaching of Biology.....	515	5	10							515	5	12
Plant Ecology.....	602	5	12	601	5	10				602	5	13
Principles of Taxonomy.....				607	5	3	609	5	6	609	5	1
Economic Botany.....							620	5	9			
Plant Growth.....							633	3	8	634	3	7
Mycology.....	653	5	4				653	5	5			
Diseases of Fruit Crops.....				655	3	6						
Diseases of Garden Crops.....							657	3	8			
Advanced Mycology.....				661	5	7						
Minor Problems: Taxonomy.....				701	5	1	701	5	1	701	5	1
Minor Problems: Physiology.....	703	5	3	703	5	8	703	5	10			
Minor Problems: Pathology.....	704	5	6	704	5	3	704	5	5	704	5	6
Minor Problems: Economic Botany.....	705	5	1				705	5	1			
Research: Taxonomy.....				801	5	1	801	5	2	801	5	1
Research: Physiology.....	803	5	4	803	5	4	803	5	3	803	5	3
Research: Pathology.....	804	5	3	804	5	4	804	5	6	804	5	6
Research: Economic Botany.....										806	5	1
Botanical Seminary.....				810	1	14	810	1	14	810	1	13

BUREAU OF EDUCATIONAL RESEARCH

B. R. BUCKINGHAM												
Educational Statistics (S. A.).....				613	3	3						
Minor Problems (P. & P.).....				651	2-4	25						

THE WORK OF INSTRUCTORS—1923-1924—Continued

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
P. R. STEVENSON												
School Buildings and Equipment (S. A.)....	606	3	12	.....	.....	.....	.....	.....	.....	.....	.....	.....
Minor Problems (P. & P.).....	.....	.....	.....	.....	.....	.....	652	2-4	32	.....	.....	.....
E. J. ASHBAUGH												
Administration of Curriculum (S. A.).....	604	3	18	.....	.....	.....	.....	.....	.....	.....	.....	.....
Curriculum Building (S. A.).....	.....	.....	.....	603	2	10	.....	.....	.....	.....	.....	.....
Administration of Curriculum (S. A.).....	.....	.....	.....	.....	.....	.....	604	3	10	.....	.....	.....
(S. A.)—School Administration.												
(P. & P.)—Principles and Practice.												
BUSINESS ORGANIZATION												
Elements of Business Organization.....	.....	.....	.....	400	5	133	400	5	154	400	5	146
Business Communication.....	.....	.....	.....	604	3	63	.....	.....	.....	604	3	93
Secretarial Problems.....	.....	.....	.....	.....	.....	.....	606	3	16	607	3	3
Business Statistics.....	.....	.....	.....	614	3	11	614	3	11	614	3	.....
Industrial Statistics.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	615	3	.....
Public Aspects of Industry.....	.....	.....	.....	.....	.....	.....	620	1	140	.....	.....	.....
Business Law: Contracts.....	.....	.....	.....	621	3	199	621	.....	95	621	3	53
Business Law: Agency and Sales.....	.....	.....	.....	623	3	19	623	3	142	623	3	63
Business Law: Negotiable Instruments.....	.....	.....	.....	625	3	20	625	3	22	625	3	117
Business Law: Partnerships and Corporations	.....	.....	.....	.....	.....	.....	.....	.....	.....	627	3	38
Business Law: Legal Aspects of Credits and Collections	.....	.....	.....	629	3	21	629	3	20	.....	.....	.....
Business Organization and Control.....	.....	.....	.....	640	3	49	640	3	58	640	3	37
Trade Associations.....	.....	.....	.....	.....	.....	.....	645	3	10	.....	.....	.....
Corporation Finance.....	650	5	16	650	5	71	650	5	70	650	5	78
Railroad and Public Utility Finance.....	656	3	11	.....	.....	.....	656	3	29	.....	.....	.....
Investments.....	.....	.....	.....	658	3	16	.....	.....	.....	658	3	32
Stock Market.....	.....	.....	.....	660	3	40	.....	.....	.....	.....	.....	.....
Money Market.....	.....	.....	.....	.....	.....	.....	662	3	8	.....	.....	.....
Foreign Exchange.....	.....	.....	.....	.....	.....	.....	665	3	33	.....	.....	.....
Practice Work in Banking.....	.....	.....	.....	666	1-3	6	667	1-3	4	668	1-3	7
Bank Organization and Management.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	670	4	14
Industrial Organization and Management.....	680	5	10	680	5	21	680	5	36	681	3	29
Industrial Management Field Work.....	684	4-6	17	.....	.....	.....	.....	.....	.....	.....	.....	.....
Material Organization and Management.....	.....	.....	.....	685	3	4	685	3	20	.....	.....	.....

Employment Organization and Management...	686	3	18	687	3	6	687	3	9
Production Organization and Management...	691	3	12	691	3	55	691	3	17
Office Organization and Management.....							692	3	4
Time and Motion Study.....									
Problems in Employment Organization and Management						695	3	2	
Problems in Production Organization and Management								696	3
Industrial Problems.....						697	3	3	6
Marketing	700	5	65	700	5	59	700	5	86
Marketing Problems.....				702	3	70	702	3	22
Wholesaling and Retailing.....				705	4	15	705	4	42
Credits and Collections.....	709	3	26	709	3	19	709	3	24
Salesmanship	712	3	16	712	3	85	712	3	28
Principles of Advertising.....	716	3	17	716	3	28	716	3	19
Advertising Practice.....							717	3	
Exporting and Importing.....				720	3	21	721	3	
Field Work in Marketing.....							727	2	7
Sales Administration.....							730	3	51
Port and Terminal Problems and Water Transportation								744	3
Oceans and Inland Water Com. and Transportation				745	3	12			
Valuation and Rate Problems of Railroads and Public Utilities.....							748	3	10
Traffic Management and Rate Making.....							752	3	13
Traffic Management and Rate Making.....								753	3
Life Insurance.....								760	3
Fire and Marine Insurance.....							762	3	7
Research in Corporation Organization and Finance				801	1-3	6	802	1-3	5
Insurance Problems.....				813	1-3	1			
Research in Marketing.....				817	1-3	3	818	1-3	4
Research in Banking.....				821	1-3	6	822	1-3	4
Research in Advertising and Sales.....				824	1-3	1	825	1-3	2
Graduate Seminary in Business Organization..				831	1-3	12	832	1-3	14
Research in Industrial Management.....				835	1-3	6	836	1-3	5
Research in Banking.....								847	
Total.....			119			1090		1295	1069
CERAMIC ENGINEERING									
Occurrence and Properties of Clays, Etc.....							401	4	33
Winning, Preparation, and Forming, Etc.....								405	4
Drying and Burning.....							601	5	14
Bodies, Glazes, and Colors.....							605	4	14
Refractories and Furnaces.....								610	5
Ceramic Calculations.....				615	5	17			
Physical and Chemical Measurements of Clays, Etc.							620	5	15
Laboratory Work in Ceramics.....				701	5	6			

Advanced Quantitative Analysis.....	621	4-5	8	622	3	23	624	4-5	8
General Quantitative Analysis.....	624	4-5	9	625	5	14	641	3	37
Advanced Qualitative Analysis.....	624	4-5	9	641	3	37	642	3	12
Water Analysis.....	622	3	8	672	3	33	683	3	64
Qualitative Organic Analysis.....	683	3	13	682	3	67	693	3	16
Quantitative Analysis.....	691	2	15	692	2	22	695	2	17
Advanced General Chemistry.....	692	2	10	693	3	16	700	2	39
Inorganic Preparations.....	693	3	4	702	3	34	703	56	
The Rare Elements.....	701	3	39	707	3	27	705	5	
Physical Chemistry.....	706	5	27	781	1	36	710	3	18
Physical Chemistry Laboratory.....	781	3	12	783	1	32	781	2	10
Physical Chemistry Laboratory.....	821	3	0	822	3	0	783	1	32
Physical Chemistry Laboratory.....	841	3	26	842	3	22	861	3	6
Colloid Chemistry.....	844	3-5	18	845	3-5	13	862	3	3
Elements of Chemical Engineering.....	850	3	15	851	3	8	863	3	5
Industrial Chemistry.....	861	3	6	862	3	4	890	2	
Inspection Trip West.....	862	3	3	892	2	8	900	2-5	6
Written Reports.....	863	3	1	901	2-5	5	905	2	11
Industrial Chemistry.....	890	2		906	2	10	930	3	15
Applied Electrochemistry.....	891	2	5	930	3	15	950	5-15	23
Teaching of Chemistry.....	892	2	8	950	5-15	27	950	5-15	38
Chemical Bibliography.....	900	2-5	6	901	2-5	5	902	2-5	2
Chemical Biography.....	905	2	11	906	2	10	907	2	10
Seminary in Precise Chemical Measurements.....	950	5-15	27	930	3	15	950	5-15	38
Seminary in Analytical Chemistry.....	950	5-15	27	950	5-15	27	950	5-15	38
Advanced Organic Chemistry.....	950	5-15	27	950	5-15	27	950	5-15	38
Advanced Organic Preparations.....	950	5-15	27	950	5-15	27	950	5-15	38
Seminary in Organic Chemistry.....	950	5-15	27	950	5-15	27	950	5-15	38
Physical Chemistry Laboratory.....	950	5-15	27	950	5-15	27	950	5-15	38
Physical Chemistry Laboratory.....	950	5-15	27	950	5-15	27	950	5-15	38
Physical Chemistry Laboratory.....	950	5-15	27	950	5-15	27	950	5-15	38
Seminary in Physical Chemistry.....	950	5-15	27	950	5-15	27	950	5-15	38
Advanced Industrial Chemistry.....	950	5-15	27	950	5-15	27	950	5-15	38
Seminary in Industrial Chemistry.....	950	5-15	27	950	5-15	27	950	5-15	38
Historical Chemistry.....	950	5-15	27	950	5-15	27	950	5-15	38
Chemical Research.....	950	5-15	27	950	5-15	27	950	5-15	38
Advanced Organic Preparations.....	950	5-15	27	950	5-15	27	950	5-15	38
Advanced Organic Preparations.....	950	5-15	27	950	5-15	27	950	5-15	38
CIVIL ENGINEERING									
Land Surveying.....	401	5	43	401	5	18	402	5	15
Plane Surveying.....	403	5	6	402	5	36	403	5	47
Railroad Surveying.....	404	4	5	404	4	48	405	4	46
Topographic Drawing.....	411	3	10	411	3	45	412	5	8
Applied Descriptive Geometry.....	412	5	8	412	5	8	413	5	36
Summer Surveying Camp.....	413	5	36	413	5	36	414	5	55
Summer Surveying Camp.....	414	5	55	414	5	55	415	5	55
Elementary Surveying.....	415	5	55	415	5	55	416	5	55
Surveying (Landscape Architects).....	416	5	55	416	5	55	417	5	55
Topographic Surveying.....	417	5	55	417	5	55	418	5	55
Sanitary Engineering.....	418	5	55	418	5	55	419	5	55

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Timber Construction.....	603	5	42	.....	.....	.....
Stresses in Structures.....	604	5	57
Roads and Pavements.....	605	5	45
Cement and Concrete.....	606	3	54
Timber and Masonry.....	611	3	47	.....	.....	.....
Concrete Design.....	701	5	54	.....	.....	.....	.....	.....	.....
Bridge Design.....	702	5	49	.....	.....	.....	.....	.....	.....
Water Supply Engineering.....	703	5	52	.....	.....	.....
Monsonry Construction.....	704	5	50	.....	.....	.....
Masonry Structures.....	705	5	42
Thesis.....	706	1	.....	.....	.....	.....	.....	.....	.....
Thesis.....	707	2	.....	.....	.....	.....
Thesis.....	708	5	.....
Factory Building Construction.....	711	3	27	711	3	15
Trusses.....	712	5	28	712	5	10	712	5	32
Concrete Design.....	713	5	15	.....	.....	.....	.....	.....	.....
Steel Frame Buildings.....	714	5	10	.....	.....	.....
Railway Engineering.....	730	3	17	.....	.....	.....	.....	.....	.....
Railway Engineering.....	731	3	9	.....	.....	.....
Railway Engineering.....	732	2	26
Tall Buildings.....	733	3	17	.....	.....	.....	.....	.....	.....
Advanced Bridges.....	734	3	29	.....	.....	.....
Advanced Bridges.....	735	3	16
Municipal Engineering.....	736	3	12	.....	.....	.....	.....	.....	.....
Highway Engineering.....	738	3	7	.....	.....	.....
Highway Engineering (Laboratory not available). No work given this year.
DAIRYING												
Principles of Dairying.....	401	5	12	401	5	76	401	5	84	401	5	43
Farm Dairying.....	402	5	55	.....	.....	.....
Testing of Milk Products.....	403	5	5	.....	.....	.....	.....	.....	.....
City Milk Supply.....	404	5	2	.....	.....	.....	.....	.....	.....
Buttermaking.....	405	5	1	405	5	7	405	5	8
Dairy Practice.....	406	3-5	.....	406	3-5	.....	406	3-5	.....
Soft Cheese Making.....	407	3	1	.....	.....	.....
Hard Cheese Making.....	408	5	2	.....	.....	.....

Milk Condensing.....	.....	.....	.....	409	3	3	.....	.....	.....	.....	.....	.....
Ice Cream Making.....	.....	.....	.....	410	5	3	.....	.....	.....	.....	.....	.....
Dairy Mechanics.....	.....	.....	.....	411	3	3	.....	.....	.....	.....	.....	.....
City Milk Inspection.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	412	3	21
Advanced Dairying.....	.....	.....	.....	413	3-5	5	413	3-5	10	413	3-5	11
Dairy Inspection Trip.....	.....	.....	.....	602	3	3	.....	.....	.....	602	3	5
Dairy Herd Management.....	.....	.....	.....	603	3-5	3	603	3-5	3	603	3-5	3
Special Problems in Dairy Manufacturing Prac- tice	604	3-5	2	604	3-5	2	604	3-5	2	604	3-5	2
Advanced Dairying (Graduate).....	801	5-10	2	801	5-10	2	801	5-10	2	.....	.....	.....

DENTISTRY

Anatomy .....	.....	.....	.....	431	4	51	432	4	43	433	5	45
Chemistry .....	.....	.....	.....	441	3	42	442	3	36	.....	.....	.....
Chemistry .....	.....	.....	.....	444	2	42	445	2	37	.....	.....	.....
Drawing .....	.....	.....	.....	414	2	36	.....	.....	.....	.....	.....	.....
Prosthesis .....	.....	.....	.....	401	4	42	402	4	41	403	3	41
Operative Dentistry.....	.....	.....	.....	.....	.....	.....	402	2	41	403	3	41
Military Science.....	.....	.....	.....	451	1	30	452	1	34	453	1	35
Physiology .....	.....	.....	.....	605	6	18	606	6	16	604	6	51
Physiology .....	.....	.....	.....	429	3	4	.....	.....	.....	.....	.....	.....
Anatomy .....	.....	.....	.....	434	3	22	435	3	20	436	4	19
Operative Dentistry.....	.....	.....	.....	405	3	18	406	3	19	.....	.....	.....
Bacteriology .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	450	5	18
Prosthesis .....	.....	.....	.....	405	3	22	406	3	22	407	2	21
Prosthesis .....	.....	.....	.....	421	2	25	422	2	25	423	2	24
Prosthesis .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	419	2	17
Anatomy .....	.....	.....	.....	.....	.....	.....	628	3	2	.....	.....	.....
Physiological Chemistry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	401	3	26
Military Science.....	.....	.....	.....	454	1	15	455	1	13	456	1	12
Operative Dentistry.....	.....	.....	.....	421	1	17	422	1	18	423	2	20
Operative Dentistry.....	.....	.....	.....	417	3	17	418	3	17	.....	.....	.....
Operative Dentistry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	419	1	19
Operative Dentistry.....	.....	.....	.....	409	5	17	410	5	17	411	5	18
Pathology .....	.....	.....	.....	450	3	16	451	3	16	452	2	15
Prosthesis .....	.....	.....	.....	409	3	18	410	3	19	411	3	21
Prosthesis .....	.....	.....	.....	425	2	17	426	2	16	427	2	19
Operative Dentistry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	431	2	13
Military Science.....	.....	.....	.....	557	1	10	558	1	10	559	1	11
Operative Dentistry.....	.....	.....	.....	437	2	60	438	2	60	439	2	59
Operative Dentistry.....	.....	.....	.....	441	1	61	442	1	61	443	1	60
Operative Dentistry.....	.....	.....	.....	425	2	63	426	2	63	427	2	61
Operative Dentistry.....	.....	.....	.....	445	2	61	446	2	62	447	2	61
Operative Dentistry.....	.....	.....	.....	433	2	57	434	2	57	435	2	56
Operative Dentistry.....	.....	.....	.....	413	4	64	414	4	63	415	4	62
Prosthesis .....	.....	.....	.....	413	2	65	414	2	63	415	2	64
Prosthesis	429	2	62	430	2	62	431	2	61
Military Science.....	560	1	33	561	1	33	562	1	33

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
ECONOMIC AND SOCIAL GEOGRAPHY												
Principles of Geography.....	401	5	25	401	5	190	401	5	205	401	5	140
Principles of Social Geography.....	402	5	161	402	5	161	402	5	108	402	5	115
Economic Geography.....	403	5	10	403	5	88	403	5	154	403	5	160
History, Geography, and Commerce of the United States.....	601	3	15	.....	.....	.....	601	3	51	601	3	80
Localization of Manufacturing Industries of the United States.....	603	4	8	.....	.....	.....	.....	.....	.....	603	4	24
Conservation of National Resources.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	604	2	42
Economic and Social Geography of Ohio.....	.....	.....	.....	.....	.....	.....	605	2	22	.....	.....	.....
Economic and Social Geography of Europe.....	.....	.....	.....	621	3	24	.....	.....	.....	.....	.....	.....
Political Geography of South America.....	623	3	9	.....	.....	.....	623	3	8	.....	.....	.....
Caribbean Region and the Panama Canal.....	.....	.....	.....	.....	.....	.....	624	3	23	.....	.....	.....
Economic Geography of the Far East.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	625	3	17
Geography and History of Commerce.....	631	3	14	.....	.....	.....	634	3	78	631	3	61
World Industries and Commerce.....	.....	.....	.....	633	3	25	.....	.....	.....	.....	.....	.....
Trade Centers and Trade Routes.....	.....	.....	.....	641	1-3	3	.....	.....	.....	641	1-3	14
Field Work in Geography and Commerce.....	.....	.....	.....	801	1-3	2	.....	.....	.....	.....	.....	.....
Research in Geography.....	.....	.....	.....	.....	.....	.....	802	1-3	2	.....	.....	.....
Research in Geography and Commerce.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	803	1-3	1
Research in Geography and Commerce.....	.....	.....	.....	804	1-3	2	.....	.....	.....	.....	.....	.....
Seminary in Geography and Commerce.....	.....	.....	.....	.....	.....	.....	806	1-3	2	.....	.....	.....
Seminary in Geography.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	807	1-3	2
Seminary in Geography and Commerce.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ECONOMICS												
Introduction to Economics.....	.....	.....	.....	400	5	42	400	5	30	400	5	38
Principles of Economics (first half).....	401	5	66	401	5	370	401	5	203	401	5	119
Principles of Economics (second half).....	402	5	36	402	5	114	402	5	299	402	5	205
Principles of Economics for Engineers (1).....	.....	.....	.....	403	3	44	403	3	29	.....	.....	.....
Principles of Economics for Engineers (2).....	.....	.....	.....	.....	.....	.....	404	3	31	404	3	23
Principles of Economics for Agricultural Students.....	.....	.....	.....	405	5	27	405	5	46	405	5	31
Principles of Economics for Students in Home Economics.....	407	5	37	407	5	21	407	5	41
Outlines of Public Finance.....	409	5	8	409	5	27

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Radio Telegraphy and Telephony.....	.....	.....	.....	725	4	21	725	4	7	.....	.....	.....
Electrical Design.....	.....	.....	.....	.....	.....	.....	730	4	60	.....	.....	.....
Thesis.....	.....	.....	.....	.....	.....	.....	735	3	16	736	5	16
Electrical Transmission and Distribution.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	740	3	57
Advanced Electrical Engineering Laboratory.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	745	4	57
Inspection Trip to the West.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	755	.....	32
Reading Course.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	756	.....	11
Inspection Trip to the East.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	750	.....	29
Reading Course.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	751	.....	23
Electrical Engineering.....	.....	.....	.....	775	4	31	775	4	28	.....	.....	.....
Electrical Engineering.....	.....	.....	.....	776	4	21	776	4	29	.....	.....	.....
ENGINEERING DRAWING												
Elementary Mechanical Drawing.....	401	4	7	401	4	413	401	4	51	.....	.....	.....
Mechanical Drawing.....	402	4	5	.....	.....	.....	402	4	388	402	4	45
Descriptive Geometry.....	403	4	17	403	4	82	.....	.....	.....	403	4	305
Descriptive Geometry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	404	4	47
Mechanical Drawing.....	.....	.....	.....	411	4	18	.....	.....	.....	.....	.....	.....
Engineering Drawing.....	.....	.....	.....	.....	.....	.....	412	4	16	.....	.....	.....
Descriptive Geometry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	413	4	16
Drawing and Sketching (Dental).....	.....	.....	.....	414	2	38	.....	.....	.....	.....	.....	.....
Elements of Drawing and Lettering (Pharmacy).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	416	2	18
Mechanical Drawing (Applied Optics).....	.....	.....	.....	.....	.....	.....	418	3	18	.....	.....	.....
Mechanical Drawing (Applied Optics).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	419	4	21
Mechanical Drawing.....	.....	.....	.....	421	3	57	421	3	17	.....	.....	.....
Machine Drawing.....	422	3	35	422	3	53	422	3	53	422	3	11
Advanced Descriptive Geometry.....	424	4	40	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mechanical Drawing.....	425	2	72	.....	.....	.....	.....	.....	.....	426	3	27
Technical Drawing.....	426	3	18	.....	.....	.....	.....	.....	.....	437	2	87
Projection Drawing (Home Economics).....	.....	.....	.....	.....	.....	.....	437	2	41	437	2	87
House Planning (Home Economics).....	.....	.....	.....	438	3	30	.....	.....	.....	438	3	40
Drawing in Business (Commerce and Journalism).....	.....	.....	.....	.....	.....	.....	439	5	24	.....	.....	.....
Chemical Machine Drawing.....	.....	.....	.....	701	2	19	.....	.....	.....	.....	.....	.....
Chemical Plant Layout.....	.....	.....	.....	.....	.....	.....	702	2	18	.....	.....	.....
Chemical Plant Design.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	703	2	17

ENGLISH

Elementary Composition.....	.....	.....	.....	000	0	102	000	0	85	.....	.....	.....
Composition and Reading.....	401	5	63	401	5	791	401	5	405	401	5	376
Theme Writing.....	405 }	5	48	405	5	41	405	5	44	405	5	50
Theme Writing.....	305 }	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Advanced Composition.....	.....	.....	.....	407	5	18	.....	.....	.....	407	5	24
English Composition.....	410	3	6	410	3	398	.....	.....	.....	.....	.....	.....
English Composition.....	411	3	4	.....	.....	.....	411	3	349	.....	.....	.....
English Composition.....	412	3	3	.....	.....	.....	.....	.....	.....	412	3	302
Advanced English for Engineers.....	419	3	4	419	3	42	419	3	46	419	3	78
History of the English Language.....	.....	.....	.....	.....	.....	.....	427	3	63	.....	.....	.....
English Words.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	428	3	129
The English Bible.....	429	5	35	429	5	68	429	5	46	429	5	156
Introduction to American Literature.....	432 }	5	135	433	5	253	433	5	325	433	5	673
Introduction to American Literature.....	333 }	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nineteenth Century Prose.....	441	5	75	441	5	93	441	5	82	441	5	119
Wordsworth.....	327	3	44	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nineteenth Century Poetry.....	442 }	5	100	442	5	103	442	5	89	442	5	127
Nineteenth Century Poetry.....	342 }	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nineteenth Century Prose.....	446	5	27	446	5	156	446	5	136	446	5	197
Eighteenth Century Poetry and Prose.....	.....	.....	.....	636	5	56	.....	.....	.....	.....	.....	.....
Literature and Composition.....	.....	.....	.....	643	5	20	.....	.....	.....	.....	.....	.....
Middle English.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	646	3	1
Old English.....	.....	.....	.....	651	3	20	.....	.....	.....	.....	.....	.....
Old English Poetry.....	.....	.....	.....	.....	.....	.....	652	2	5	.....	.....	.....
Chaucer and his Principal Contemporaries and Successors.....	.....	.....	.....	.....	.....	.....	653	5	31	.....	.....	.....
Chaucer.....	353	2	21	.....	.....	.....	.....	.....	.....	.....	.....	.....
English Medieval Literature to Chaucer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	654	5	43
The Novel: Richardson to Scott.....	.....	.....	.....	655	5	101	.....	.....	.....	655	5	71
The Novel: Dickens to Meredith.....	656	5	49	.....	.....	.....	656	5	138	.....	.....	.....
Versification.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	657	5	28
The Short Story.....	.....	.....	.....	.....	.....	.....	658	5	30	.....	.....	.....
Milton and Dryden.....	.....	.....	.....	.....	.....	.....	659	3	39	.....	.....	.....
Dryden.....	359	2	9	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shakespeare: History and Tragedies.....	.....	.....	.....	667	5	108	.....	.....	.....	.....	.....	.....
Shakespeare: Comedies and Romances.....	668 }	5	59	.....	.....	.....	.....	.....	.....	668	5	95
Shakespeare: Comedies and Romances.....	368 }	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Recent and Contemporary English Drama.....	.....	.....	.....	.....	.....	.....	670	3	57	.....	.....	.....
Spoken and Written English: Teachers' Course.....	680	3	23	.....	.....	.....	.....	.....	.....	.....	.....	.....
The Teaching of English.....	881	3	56	681	3	75	.....	.....	.....	.....	.....	.....
History of the Short Narrative in English.....	681	3	56	801	2	16	.....	.....	.....	.....	.....	.....
The Lyric.....	.....	.....	.....	.....	.....	.....	802	2	12	802	2	6
History of Critical Theory.....	805	2	17	805	2	17	.....	.....	.....	.....	.....	.....
Problems in the Drama.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	806	2	13
The Later Novel.....	807	2	19	.....	.....	.....	.....	.....	.....	807	2	12
The Later Poetry.....	808	2	18	808	2	11
English and Scottish Popular Ballads.....
English Usage.....

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
The Celtic Renaissance.....	.....	.....	.....	.....	.....	.....	812	2	6	813	2	8
Shakespeare's Contemporaries and Predecessors in English Drama.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	672	5	33
Studies in Seventeenth Century Literature.....	.....	.....	.....	815	2	2	815	2	4	.....	.....	.....
Studies in Eighteenth Century Literature.....	818	2	12	818	2	4	818	2	1	818	2	3
Discussion of Dissertations.....	819	.....	6	819	2	5	.....	.....	.....	819	2	1
.....	.....	.....	.....	.....	.....	.....	820	2	2	.....	.....	.....
.....	821	.....	2	821	2	7	.....	.....	.....	821	.....	3
Total English.....	.....	.....	817	.....	.....	2514	.....	.....	2006	.....	.....	2548
ENGLISH—PUBLIC SPEAKING												
Public Speaking.....	401	2	27	401	5	89	.....	.....	.....	401	5	98
Debating.....	402	5	7	402	5	11	402	5	53	402	5	5
Advanced Argumentation and Debate.....	.....	.....	.....	407	5	5	.....	.....	.....	407	5	14
Advanced Debate Practice.....	.....	.....	.....	410	5	3	410	5	6	.....	.....	.....
Extempore Speaking.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	414	.....	5
Masters of Public Address.....	.....	.....	.....	.....	.....	.....	421	5	7	.....	.....	.....
Forms of Public Address.....	.....	.....	.....	625	5	0	.....	.....	.....	625	5	8
Special Problems in the Theory of Public Speaking.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	651	5	1
Total Public Speaking.....	.....	.....	34	.....	.....	108	.....	.....	66	.....	.....	131
Grand Total.....	.....	.....	851	.....	.....	2622	.....	.....	2072	.....	.....	2679
EUROPEAN HISTORY												
Europe in the Middle Age.....	401	5	25	401	5	236	401	5	102	401	5	127
Modern Europe from 1500 A. D.....	402	5	22	402	5	63	402	5	177	402	5	100
England Through the Medieval Period.....	403	5	13	403	5	40	.....	.....	.....	.....	.....	.....
Roman History.....	406	5	17	.....	.....	.....	.....	.....	.....	406	5	76
Europe from 1815 to 1878.....	407	5	11	407	5	37	.....	.....	.....	.....	.....	.....
European Problems of Reconstruction.....	409	5	33	.....	.....	.....	.....	.....	.....	409	5	51
Expansion of Europe Through the Eighteenth Century.....	601	3	17	601	3	12	.....	.....	.....	.....	.....	.....
Period of the Reformation.....	609	3	6	.....	.....	.....	602	3	19	.....	.....	.....
Seminary in European History.....	801	2-5	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ancient, Pre-historic and Oriental History.....	.....	.....	.....	411	3	24	.....	.....	.....	.....	.....	.....
Ancient Christianity.....	.....	.....	.....	611	5	9	.....	.....	.....	.....	.....	.....

Constitutional History of England to 1845....	.....	.....	.....	604	5	11	.....	.....	.....	.....	.....	.....
Age of the Renaissance.....	.....	.....	.....	608	3	13	.....	.....	.....	.....	.....	.....
Great Historians.....	.....	.....	.....	645	3	6	.....	.....	.....	.....	.....	.....
England in Tudor Period.....	.....	.....	.....	625	3	14	.....	.....	.....	.....	.....	.....
Seminary in European History.....	.....	.....	.....	802	2-5	6	.....	.....	.....	.....	.....	.....
England in Modern Period since 1603.....	.....	.....	.....	.....	.....	.....	404	5	61	.....	.....	.....
Greek History.....	.....	.....	.....	.....	.....	.....	405	5	55	.....	.....	.....
Constitutional History of England from 1845..	.....	.....	.....	.....	.....	.....	605	5	9	.....	.....	.....
Medieval Christianity.....	.....	.....	.....	.....	.....	.....	612	5	11	.....	.....	.....
Medieval Civilization.....	.....	.....	.....	.....	.....	.....	621	5	8	.....	.....	.....
England in the Stuart Period.....	.....	.....	.....	.....	.....	.....	626	3	8	.....	.....	.....
Historical Method.....	.....	.....	.....	.....	.....	.....	646	3	5	.....	.....	.....
Seminary in European History.....	.....	.....	.....	.....	.....	.....	803	2-5	10	.....	.....	.....
History of Modern Russia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	410	5	13
Europe and Asia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	616	3	18
The Third French Republic.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	632	5	11
Seminary in European History.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	804	2-5	10
The Teaching of European History.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	647	3	28

FARM CROPS

Field Crop Production.....	401	5	12	401	5	40	.....	.....	.....	401	5	46
Cereal Crops.....	.....	.....	.....	.....	.....	.....	402	5	10	.....	.....	.....
Forage Crops.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	403	5	11
Plant Breeding.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	602	5	4
Crop Experimentation.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	603	3	5
Minor Investigations.....	604	3-5	3	.....	.....	.....	604	3-5	3	604	3	3
Research.....	801	5-10	1	801	5-10	1	801	5-10	2	801	5-10	2
Seminary.....	.....	.....	.....	802	1	3	802	1	3	802	1	3
Winter Course—Forage Crops.....	.....	.....	.....	.....	.....	47	.....	.....	.....	.....	.....	.....
Winter Course—Cereal Crops.....	.....	.....	.....	.....	.....	25	.....	.....	.....	.....	.....	.....

FINE ARTS

Intermediate Design.....	332	3	20	.....	.....	.....	.....	.....	.....	.....	.....	.....
Theory and Practice of Teaching Art.....	372	3	30	.....	.....	.....	.....	.....	.....	.....	.....	.....
Theory and Practice of Teaching Art.....	373	3	6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Appreciation of Art.....	475	1	31	475	1	75	475	1	70	475	1	103
Elementary Freehand Drawing.....	421	5	7	421	5	48	421	5	36	421	5	30
Elements of Art.....	426	5	6	426	5	59	426	5	55	426	5	52
Elementary Design.....	431	5	5	431	5	8	431	5	13	431	5	12
Water Color Painting.....	441	5	7	441	5	6	.....	.....	.....	441	5	10
Freehand Drawing for Architects.....	.....	.....	.....	401	2	8	402	2	9	403	2	7
Advanced Freehand Drawing for Architects...	.....	.....	.....	404	2	8	405	2	10	.....	.....	.....
Water Color for Architects.....	.....	.....	.....	408	2	8	.....	.....	.....	407	2	.....
Drawing from Life for Architects.....	.....	.....	.....	.....	.....	.....	411	2	9	412	2	2
Advanced Freehand Drawing.....	.....	.....	.....	423	5	11	423	5	25	423	5	13
Drawing from Life.....	.....	.....	.....	424	5	2	424	5	9	424	5	9
Advanced Life Drawing.....	425	5	1	425	5	4	425	5	1
Intermediate Design.....	432	5	432	5	7
Commercial Design.....	433	5

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Thesis Design.....	.....	.....	.....	.....	.....	.....	434	5	1	434	5	1
Illustrative Drawing.....	.....	.....	.....	435	5	.....	.....	.....	.....	435	5	.....
Costume Design.....	.....	.....	.....	436	3	40	436	3	24	436	3	63
Oil Painting.....	.....	.....	.....	442	5	6	442	5	5	442	5	7
Advanced Oil Painting.....	.....	.....	.....	433	5	1	443	5	8	443	5	6
History of Classic Art.....	.....	.....	.....	451	5	28	.....	.....	.....	.....	.....	.....
History of Medieval Art.....	.....	.....	.....	.....	.....	.....	452	5	20	.....	.....	.....
History of Renaissance Art.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	453	5	23
Modern Painting and Sculpture.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	454	5	26
History of Minor Arts.....	.....	.....	.....	.....	.....	.....	455	5	5	.....	.....	.....
Modelling.....	.....	.....	.....	461	5	7	461	5	3	461	5	4
Advanced Modelling.....	.....	.....	.....	462	5	.....	462	5	2	462	5	4
Theory and Practice of Teaching Art.....	.....	.....	.....	471	5	4	.....	.....	.....	.....	.....	.....
Proseminary.....	.....	.....	.....	651	5	4	658	5	4	659	5	3
Advanced Technical Problems.....	.....	.....	.....	661	3	.....	662	3-5	4	663	3-5	5
GERMAN												
Elementary German.....	401	5	14	401	5	236	401	5	81	401	5	47
Elementary German.....	402	5	18	402	5	30	402	5	156	402	5	60
Intermediate German.....	.....	.....	.....	403	5	24	403	5	29	403	5	95
Easy Classical Reading.....	404	5	9	404	5	20	404	5	8	404	5	23
Science Reading.....	.....	.....	.....	406	5	16	.....	.....	.....	.....	.....	.....
Advanced German.....	415	5	12	441	5	20	422	5	18	431	5	15
German Criticism.....	.....	.....	.....	.....	.....	.....	475	3	3	.....	.....	.....
Proseminary.....	612	3	2	613	3	3	621	3	8	633	3	8
Phonetics.....	655	3	3	655	3	3	.....	.....	.....	.....	.....	.....
The Teaching of German.....	.....	.....	.....	665	3	1	.....	.....	.....	.....	.....	.....
Advanced Composition.....	.....	.....	.....	.....	.....	.....	685	3	5	.....	.....	.....
Minor Investigations.....	.....	.....	.....	695	3	1	695	3	1	.....	.....	.....
GEOLOGY												
General Geology.....	401	5	23	401	5	207	401	5	105	401	5	53
General Geology.....	402	5	15	.....	.....	.....	402	5	173	402	5	82
Physiography of the United States.....	.....	.....	.....	403	5	23	.....	.....	.....	.....	.....	.....
Glacial Geology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	404	5	19
Structure and Dynamical Geology.....	.....	.....	.....	.....	.....	.....	406	5	12	.....	.....	.....

Historical Geology.....	.....	.....	.....	408	3	4	409	3	4	407	5	7
Introductory Paleontology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	410	3	4
Meteorology and Climatology.....	.....	.....	.....	421	5	15	.....	.....	.....	420	5	10
Principles of Geography.....	.....	.....	.....	.....	.....	.....	422	5	9	.....	.....	.....
Physical Geography of North America.....	.....	.....	.....	430	5	51	430	5	21	430	5	82
Agricultural Geology.....	.....	.....	.....	435	5	36	435	5	44	.....	.....	.....
Engineering Geology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	436	5	20
Physical Geology.....	.....	.....	.....	437	3	7	.....	.....	.....	.....	.....	.....
Historical Geology for Engineers.....	.....	.....	.....	601	3	3	602	3	3	603	3	2
Advanced Paleontology.....	.....	.....	.....	.....	.....	.....	604	5	8	.....	.....	.....
Advanced Physiography.....	.....	.....	.....	605	3	17	606	3	13	607	3	17
Economic Geology.....	.....	.....	.....	608	5	5	.....	.....	.....	.....	.....	.....
Stratigraphic Geology of Ohio.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	615	5	5
Geological Surveying.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	612	5	3
Special Problems.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
GREEK												
Elementary Greek.....	.....	.....	.....	401	5	14	.....	.....	.....	.....	.....	.....
Xenophon.....	.....	.....	.....	.....	.....	.....	402	5	10	.....	.....	.....
Plato.....	.....	.....	.....	404	5	2	.....	.....	.....	403	5	5
Homer.....	.....	.....	.....	.....	.....	.....	601	5	3	601	5	3
Readings.....	.....	.....	.....	650	3	11	651	3	16	652	3	19
Greek Art.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	701	3	8
Principles Historical Study of Languages.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
HISTORY OF EDUCATION												
History of Education.....	404	3	84	404	3	118	404	3	83	404	3	77
History of Pre-Renaissance Education.....	403	3	44	.....	.....	.....	.....	.....	.....	403	3	14
History of Elementary Education.....	401	5	.....	401	5	19	.....	.....	.....	.....	.....	.....
History of Modern Education.....	405	3	153	.....	.....	.....	405	3	143	405	3	71
Educational Classics.....	602	2	22	.....	.....	.....	602	2	5	.....	.....	.....
Educational Classics.....	.....	.....	.....	601	2	7	.....	.....	.....	601	2	9
*Comparative Education.....	.....	.....	.....	603	2	13	.....	.....	.....	.....	.....	.....
American Education.....	605	2	20	.....	.....	.....	605	2	17	.....	.....	.....
American Education.....	.....	.....	.....	608	2	22	.....	.....	.....	606	2	24
The American High School.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Present Day Problems in Education.....	609	2	17	.....	.....	.....	609	2	11	.....	.....	.....
Present Day Problems in Education.....	.....	.....	.....	801	2	4	.....	.....	.....	610	2	21
Seminary—Humanism.....	.....	.....	.....	.....	.....	.....	802	2	3	.....	.....	.....
Seminary—Humanism.....	.....	.....	.....	.....	.....	.....	604	2	10	.....	.....	.....
*Comparative Education.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
HOME ECONOMICS												
Textiles and Clothing.....	.....	.....	.....	401	5	135	401	5	29	.....	.....	.....
Textiles and Clothing.....	.....	.....	.....	.....	.....	.....	402	5	56	402	5	85
Dress.....	403	5	16	403	5	34	403	5	18	403	5	28
Foods.....	.....	.....	.....	411	5	93	.....	.....	.....	411	5	33
Foods.....	.....	.....	.....	412	5	18	412	5	76	412	5	16
Advanced Foods.....	.....	.....	.....	413	5	10	413	5	4	413	5	24
Minimal Family Expenditures.....	.....	.....	.....	.....	.....	.....	415	3	4	.....	.....	.....

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Advanced Dress.....	501	5	13	.....	.....	.....	501	5	4	501	5	11
Millinery	502	3	27	.....	.....	.....
Sanitation	511	3	24	511	3	34	511	3	34
House Furnishing.....	512	3	37	512	3	33	512	3	31
Child Care.....	521	5	34	521	5	39
Nutrition	611	5	35	611	5	42	.....	.....	.....
Advanced Nutrition.....	612	5	12
Household Management.....	617	5	10	617	5	35	617	5	26
Special Problems in Home Economics.....	625	3-15	9	625	3-15	6	625	3-15	10	625	3-15	9
Institutional Management.....	631	5	6	631	5	15	.....	.....	.....
Institutional Management.....	632	5	5	632	5	16
School Luncheon Management.....	633	3	16	.....	.....	.....	.....	.....	.....	.....	.....	.....
Home Economics Teaching.....	641	5	18	641	5	12	641	5	29
Supervised Home Economics Teaching.....	642	5	18	642	5	11	642	5	22
Advanced Special Problems in Home Economics.....	801	3-15	1	.....	.....	.....	801	3-15	2
Survey—Home Economics.....	1	88
HORTICULTURE												
Principles of Horticulture.....	401	5	13	401	5	27	401	5	16	.....	.....	.....
Small Fruits.....	402	5	16
Pomology	403	5	1	.....	.....	.....	403	5	17	404	5	13
Farm Horticulture.....	405	5	60	405	5	42
Commercial Vegetable Gardening.....	421	5	10	422	5	7
Horticultural Products.....	423	3	8	.....	.....	.....	.....	.....	.....
Greenhouse Construction.....	424	3	4	.....	.....	.....
Vegetable Forcing.....	426	3	2	.....	.....	.....	426	3	2
Special Truck Crops.....	428	3	9
Amateur Floriculture.....	441	3	9	.....	.....	.....
Commercial Floriculture.....	442	5	5	443	5	6	.....	.....	.....
Garden Flowers.....	444	5	7	.....	.....	.....	445	5	5
Flower Shop.....	446	3	3
Farm Woodlot.....	451	5	4	.....	.....	.....	451	5	3
Arboriculture and Ornamental Planting.....	452	5	1	.....	.....	.....	.....	.....	.....
Lumber	454	5	3	.....	.....	.....
Principles of Forestry.....	455	5	7	.....	.....	.....	.....	.....	.....
Timber Physics.....	457	5	71

General Forestry.....	.....	.....	.....	.....	.....	458	5	11	.....	.....	.....
Amateur Landscape Architecture.....	.....	.....	.....	.....	.....	461	3	24	.....	.....	.....
Landscape Design.....	.....	.....	.....	.....	.....	462	5	11	463	5	12
Landscape Design.....	.....	464	3	8	.....	465	3	12	466	3	13
Landscape Design.....	.....	467	5	3	.....	.....	.....	.....	467	5	2
Planting Design.....	.....	471	3	4	.....	.....	.....	.....	.....	.....	.....
Landscape Engineering.....	.....	.....	.....	.....	.....	.....	.....	.....	475	5	6
Civic Design.....	.....	476	3	6	.....	477	3	4	.....	.....	.....
Experimental Horticulture.....	.....	602	3	2	.....	603	3	3	.....	.....	.....
Systematic Pomology.....	.....	604	5	4	.....	.....	.....	.....	.....	.....	.....
Literature of Horticulture.....	.....	.....	.....	.....	.....	605	5	3	.....	.....	.....
Minor Investigations.....	.....	643	3	4	.....	644	3	13	645	3	8
Minor Investigations.....	.....	651	5	2	.....	651	5	2	651	5	5
Development of Forestry and Conservation.....	.....	.....	.....	.....	.....	460	5	13	.....	.....	.....

INDUSTRIAL ARTS

Shop Work.....	401	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foundry Work.....	405	3	6	405	3	30	405	3	14	405	3
Metal Bench Work.....	407	2	11	407	2	33	407	2	4	407	2
Metal Bench Work.....	408	2	4	408	2	3	408	2	27	408	2
Pattern Making.....	411	3	42	411	3	45	411	3	27	411	3
Forging.....	415	3	11	415	3	31	415	3	23	415	3
Forging and Sheet Metal Work.....	416	3	24	416	3	19	416	3	9	416	3
Elementary Machine Work.....	419	3	20	419	3	73	419	3	39	419	3
Advanced Machine Work.....	421	3	17	421	3	34	421	3	49	421	3
Advanced Machine Work.....	523	2	.....	523	2	5	523	2	3	523	2

INDUSTRIAL EDUCATION

Elementary Woodwork.....	401	5	16	.....	.....	.....	401	5	2	401	5
Industrial Arts for Elementary Teachers.....	402	2	29	.....	.....	.....	.....	.....	.....	.....	6
Wood-turning and Pattern-making.....	501	5	6	501	5	7	501	5	1	.....	.....
Advanced Wood-turning and Pattern-making.....	502	5	1	.....	.....	.....	502	5	8	.....	.....
Cabinet Making.....	503	5	11	503	5	1	.....	.....	.....	503	5
Advanced Cabinet Making.....	504	5	4	.....	.....	.....	504	5	1	504	5
Electrical Work and Pipe Fitting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	505	3
Sheet Metal Work.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	506	3
Craftwork for Women.....	.....	.....	.....	.....	.....	.....	507	3	1	507	3
Craftwork for Women.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	508	3
Methods Related to Agricultural Shopwork.....	509	3	1	.....	.....	.....	509	.....	2	.....	.....
Shopwork Related to the Farm.....	510	3	24	.....	.....	.....	510	3	23	.....	.....
House Construction and Furnishing.....	.....	.....	.....	512	2	59	.....	.....	.....	512	2
Constructive Design.....	521	3	7	521	3	5	521	3	1	521	3
Advanced Constructive Design.....	522	3	2	.....	.....	.....	522	3	1	522	3
Teaching of Industrial Education.....	523	3	15	.....	.....	.....	.....	.....	.....	523	3
Materials and Methods.....	524	3	12	524	3	4	.....	.....	.....	.....	.....
Shop Planning and Equipment.....	525	3	7	.....	.....	.....	525	3	1	525	3
Special Problems in Industrial Education.....	626	3	3	626	3

JOURNALISM

News Collecting and Writing.....	401	5	11	401	5	88	401	5	26	401	5
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News Collecting and Writing.....	402	5	4	402	5	12	402	5	57	402	5	17
Agricultural Journalism.....	407	3	13	407	3	10
Agricultural Journalism.....	.....	.....	.....	.....	.....	.....	408	3	11	.....	.....	.....
Industrial Journalism.....	.....	.....	.....	413	3	2	.....	.....	.....	413	3	7
Copy Reading.....	501	3	5	501	3	23	.....	.....	.....	501	3	34
Feature Writing.....	502	3	3	.....	.....	.....	502	3	27	.....	.....	.....
Ethics and Principles.....	513	3	6	.....	.....	.....	513	3	17	.....	.....	.....
Newspaper Law.....	.....	.....	.....	514	3	8	.....	.....	.....	514	3	11
Newspaper Organization.....	.....	.....	.....	518	5	11	.....	.....	.....	518	5	24
Newspaper History.....	517	5	10	.....	.....	.....	517	5	23	.....	.....	.....
Community Weekly.....	.....	.....	.....	525	3	4	.....	.....	.....	525	3	20
Newspaper Business Office.....	.....	.....	.....	.....	.....	.....	526	3	19	.....	.....	.....
Newspaper Problems.....	608	2	4	.....	.....	.....	608	2	23	.....	.....	.....
Newspaper Problems.....	.....	.....	.....	607	3	24	.....	.....	.....	607	2	5
Editorial Writing.....	.....	.....	.....	621	3	31	.....	.....	.....	621	3	10
Public Opinion in Making.....	.....	.....	.....	.....	.....	.....	622	3	28	.....	.....	.....
LATIN												
Latin Satire.....	602	3	14	.....	.....	.....	.....	.....	.....	.....	.....	.....
Comparative Literature.....	606	3	16	.....	.....	.....	.....	.....	.....	.....	.....	.....
Proseminary.....	615	3	13	.....	.....	.....	.....	.....	.....	.....	.....	.....
Methods.....	617	3	10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elementary Latin.....	.....	.....	.....	401	5	46	.....	.....	.....	.....	.....	.....
Cicero: Orations.....	.....	.....	.....	404	5	11	.....	.....	.....	.....	.....	.....
Cicero and Horace.....	.....	.....	.....	406	5	19	.....	.....	.....	.....	.....	.....
Catullus and Pliny.....	.....	.....	.....	601	3	11	.....	.....	.....	.....	.....	.....
Prose Composition.....	.....	.....	.....	612	3	12	.....	.....	.....	.....	.....	.....
Methods.....	.....	.....	.....	617	3	9	.....	.....	.....	.....	.....	.....
Elementary Latin.....	.....	.....	.....	.....	.....	.....	401	5	14	.....	.....	.....
Elementary Latin.....	.....	.....	.....	.....	.....	.....	402	5	27	.....	.....	.....
Vergil.....	.....	.....	.....	.....	.....	.....	405	5	5	.....	.....	.....
Horace, Livy, and Ovid.....	.....	.....	.....	.....	.....	.....	407	5	16	.....	.....	.....
Latin Satire.....	.....	.....	.....	.....	.....	.....	602	3	6	.....	.....	.....
Roman Private Life.....	.....	.....	.....	.....	.....	.....	607	3	21	.....	.....	.....
Historical Latin Grammar.....	.....	.....	.....	.....	.....	.....	609	3	6	.....	.....	.....
Roman Public Life.....	.....	.....	.....	.....	.....	.....	611	3	1	.....	.....	.....

Prose Composition.....	.....	.....	.....	.....	.....	613	3	14	.....	.....	.....
Proseminary .....	.....	.....	.....	.....	.....	615	3	6	.....	.....	.....
Elementary Latin.....	.....	.....	.....	.....	.....	.....	.....	.....	402	5	12
Caesar .....	.....	.....	.....	.....	.....	.....	.....	.....	403	5	24
Latin Comedy.....	.....	.....	.....	.....	.....	.....	.....	.....	408	5	14
Sallust .....	.....	.....	.....	.....	.....	.....	.....	.....	409	5	2
Advance Latin Reading.....	.....	.....	.....	.....	.....	.....	.....	.....	603	3	16
Legal Latin.....	.....	.....	.....	.....	.....	.....	.....	.....	605	3	4
Comparative Literature.....	.....	.....	.....	.....	.....	.....	.....	.....	606	3	11
Archaeology .....	.....	.....	.....	.....	.....	.....	.....	.....	608	3	13
Prose Composition.....	.....	.....	.....	.....	.....	.....	.....	.....	614	3	12
Proseminary .....	.....	.....	.....	.....	.....	.....	.....	.....	616	3	9
Epigraphy .....	.....	.....	.....	.....	.....	.....	.....	.....	618	3	2

COLLEGE OF LAW

JOHN J. ADAMS

Code Pleading.....	.....	.....	.....	.....	4	108	.....	.....	.....	.....	.....
Public Corporations.....	.....	.....	.....	.....	3	65	.....	.....	.....	.....	.....
Practice .....	.....	.....	.....	.....	.....	.....	3	59	.....	.....	63
Evidence .....	.....	.....	.....	.....	.....	.....	3	97	.....	4	93
Judgment and Bankruptcy.....	.....	.....	.....	.....	.....	.....	4	97	.....	.....	.....
Jurisprudence .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	44
Legal Ethics—5 Lectures.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59

A. H. TUTTLE

Torts .....	.....	.....	.....	.....	3	125	.....	3	130	.....	3	129
Criminal Law.....	.....	.....	.....	.....	5	124	.....	.....	.....	.....	.....	.....
Constitutional Law.....	.....	.....	.....	.....	.....	.....	.....	5	60	.....	2	45
Partnership .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	98

LEWIS M. SIMES

Wills .....	.....	.....	.....	.....	3	105	.....	.....	.....	.....	.....	.....
Private Corporations.....	.....	.....	.....	.....	3	71	.....	3	67	.....	.....	.....
Property I.....	.....	.....	.....	.....	.....	.....	.....	4	130	.....	.....	.....
Property III.....	.....	.....	.....	.....	.....	.....	.....	4	104	.....	.....	.....
Property II.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	130	.....
Property IV.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	40	.....

GEORGE W. RIGHTMIRE

Contracts .....	.....	.....	.....	.....	3	120	.....	3	114	.....	3	123
Civil Procedure.....	.....	.....	.....	.....	3	128	.....	.....	.....	.....	3	1
Negotiable Instruments.....	.....	.....	.....	.....	4	59	.....	.....	.....	.....	.....	.....
Bailments .....	.....	.....	.....	.....	3	1	.....	3	1	.....	.....	.....
Agency	3	128	4	103
Sales	2	97
Suretyship

CLARENCE D. LAYLIN

Equity I.....	4	109
Equity II.....	3	106

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Quasi-Contracts .....	.....	.....	.....	.....	3	86	.....	.....	.....	.....	.....	.....
Equity III.....	.....	.....	.....	.....	3	58	.....	.....	.....	.....	.....	.....
Conflict of Laws.....	.....	.....	.....	.....	.....	.....	.....	3	60	.....	3	59
Mortgages .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	96
Domestic Relations.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	123
MATHEMATICS												
Mathematics of Finance.....	429	5	9	429	5	30	429	5	30	429	5	27
Elementary Analysis III.....	431	5	20	431	5	346	431	5	123	.....	.....	.....
Elementary Analysis I.....	433	5	16	433	5	96	.....	.....	.....	433	5	275
Calculus (Differential).....	441	5	9	441	5	245	441	5	108	.....	.....	.....
Calculus (Integral).....	443	5	14	443	5	39	443	5	57	443	5	177
Calculus (Advanced).....	603	5	12	.....	.....	.....	.....	.....	.....	.....	.....	.....
Functions of a Real Variable.....	606	5	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Advanced Euclidian Geometry.....	621	5	12	.....	.....	.....	621	5	19	.....	.....	.....
Teaching of Mathematics.....	681	3	23	681	3	11	.....	.....	.....	.....	.....	.....
Material and Concepts of Elementary Mathematics	684	5	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sub-Freshman Mathematics.....	.....	.....	.....	400	3	96	.....	.....	.....	.....	.....	.....
Mathematics for Students of Agriculture.....	.....	.....	.....	407	5	71	407	5	81	407	5	50
Selected Topics in Alg. for Investments.....	.....	.....	.....	424	5	37	.....	.....	.....	.....	.....	.....
Elementary Analysis (Arts College).....	.....	.....	.....	421	5	77	421	5	35	.....	.....	.....
Caculus (Differential and Integral).....	.....	.....	.....	442	5	71	442	5	201	442	5	108
Calculus (Advanced).....	.....	.....	.....	601	5	11	.....	.....	.....	.....	.....	.....
Elementary Theory of Equations.....	.....	.....	.....	641	5	15	.....	.....	.....	.....	.....	.....
Fourier's Series and Spherical Harmonics.....	.....	.....	.....	861	5	7	.....	.....	.....	.....	.....	.....
Elementary Analysis (Arts College).....	.....	.....	.....	.....	.....	.....	422	5	43	422	5	18
Mathematics of Insurance.....	.....	.....	.....	.....	.....	.....	430	5	25	430	5	22
Elementary Analysis I.....	.....	.....	.....	.....	.....	.....	432	5	280	432	5	112
Introduction to Math of Statistics.....	.....	.....	.....	.....	.....	.....	435	5	6	.....	.....	.....
Differential Equations I.....	.....	.....	.....	.....	.....	.....	611	5	11	.....	.....	.....
Vector Analysis.....	.....	.....	.....	.....	.....	.....	661	5	10	.....	.....	.....
Elementary Analysis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	423	5	28
Differential Equations II.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	612	5	6
Projection Geometry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	623	5	11
Theory of Functions of a Complex Variable.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	806	5	5

Finite Groups.....	.....	.....	.....	.....	.....	.....	.....	.....	841	5	4
Total at end of Quarter.....	.....	.....	181	.....	.....	1152	.....	.....	1029	.....	843
MECHANICAL ENGINEERING												
Steam Engineering.....	.....	.....	.....	.....	.....	.....	.....	.....	403	3	58
Heat—Power Engineering.....	405	3	6	.....	.....	.....	.....	.....	405	3	61
Practical Experience in a Mechanical Engineering Industry.....	439	5	71	.....	.....	.....	.....	.....	.....	.....	.....
Heat—Power Engineering.....	509	4	3	505	3	52	506	3	42	.....	.....
Heat Engines.....	507	4	8	507	4	27	.....	.....	.....	.....	.....
Machine Design.....	.....	.....	.....	512	4	35	.....	.....	513	5	39
Mechanical Engineering Laboratory.....	521	2	3	521	2	51	522	3	48	523	3	45
Heating and Ventilating.....	.....	.....	.....	551	2	23	.....	.....	.....	.....	.....
Power Generation and Transmission.....	.....	.....	.....	560	5	5	.....	.....	.....	.....	.....
Mechanical Engineering Laboratory.....	.....	.....	.....	.....	.....	.....	572	3	6	.....	.....
Mechanical Engineering Laboratory.....	.....	.....	.....	573	5	42	574	3	40	.....	.....
Mechanical Engineering Laboratory.....	.....	.....	.....	575	3	38	.....	.....	.....	.....	.....
Mechanical Engineering Laboratory.....	.....	.....	.....	591	5	10	.....	.....	.....	.....	.....
Steam Engineering.....	603	3	2	603	3	72	604	4	81	609	4	59
Heating and Ventilating.....	.....	.....	.....	602	3	54	.....	.....	.....	.....	.....
Mechanism.....	.....	.....	.....	.....	.....	.....	614	4	60	.....	.....
Mechanism Drawing.....	.....	.....	.....	.....	.....	.....	616	2	56	.....	.....
Gas Engines and Producers.....	.....	.....	.....	.....	.....	.....	.....	.....	625	3	44
Materials of Engineering.....	.....	.....	.....	.....	.....	.....	.....	.....	627	3	40
Inspection Trip—one week.....	.....	.....	.....	.....	.....	.....	.....	.....	630	.....	40
Reading Course—one week.....	.....	.....	.....	.....	.....	.....	.....	.....	634	.....	2
A. S. M. E. Student Branch Meetings.....	651	$\frac{1}{2}$	58	652	$\frac{1}{2}$	63	653	$\frac{1}{2}$	61
Mechanical Engineering Laboratory.....	664	3	4	.....	.....	.....	.....	.....	664	3	46
Automotive Engineering.....	701	3	26	702	3	13	703	3	11
Machine Design.....	727	5	77	728	5	73	744	5	70
Applied Thermodynamics.....	729	3	8
Industrial Engineering.....	.....	.....	.....	.....	.....	.....	.....	.....	713	3	40
Inspection Trip—one week.....	.....	.....	.....	.....	.....	.....	.....	.....	730	.....	36
Reading Course—one week.....	.....	.....	.....	.....	.....	.....	.....	.....	734	.....	12
Hydraulic Machinery.....	742	3	25	742	3	30
Steam Turbines.....	.....	.....	.....	.....	.....	.....	.....	.....	746	3	18
Special Design.....	.....	.....	.....	.....	.....	.....	.....	.....	747	3	1
Thesis Work.....	748	3	8	748	3	7
Hydraulic Power.....	.....	.....	.....	.....	.....	.....	.....	.....	750	4	9
A. S. M. E. Student Branch Meetings.....	751	$\frac{1}{2}$	56	752	$\frac{1}{2}$	56	753	$\frac{1}{2}$	54
Mechanical Engineering Laboratory.....	779	3	52	780	3	54	781	3	54
Research Work.....	801	10	1	802	{ 8	1	803	{ 8	1
.....	{ 17	1	{ 17	1
MECHANICS												
Statics.....	601	5	21	601	5	172	601	5	52	601	5	79
Strength of Materials.....	602	5	12	602	5	79	602	5	163	602	5	52
Strength of Materials, Kinetics, Hydraulics.....	603	5	3	603	5	61	603	5	163
Strength of Materials (for Architects).....	604	3	6

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
MEDICINE												
Physical Diagnosis.....	601	3	76	.....	.....	.....
General and Clinical Medicine.....	602	5	91	602	5	92	604	5	90
Nervous Diseases.....	605	3	91	.....	.....	.....	.....	.....	.....
Genito-Urinary Diseases.....	607	3	92	.....	.....	.....
Dermatology.....	606	3	90
Hospital Ward Clinics—Medicine.....	601	2	53	602	2	53	603	2	53
General and Clinical Medicine.....	608	2	53	609	2	53	610	2	53
Therapeutics.....	614	2	53	.....	.....	.....	.....	.....	.....
Pediatrics.....	615	2	53	616	2	53	617	2	53
Psychiatry.....	611	1	53	.....	.....	.....
Tuberculosis (Elective).....	619	2	28	.....	.....	.....
Syphilology (Elective).....	623	2	26
Medical Law.....	601	2	53
METALLURGY												
Metal Analysis.....	406	5	11
Metallurgical Analysis.....	405	5	.....	405	5	11	.....	.....	.....
Fire Assaying.....	410	3	9	.....	.....	.....	410	3	9
Industrial Experience.....	420	5	12	.....	.....	.....	.....	.....	.....	.....	.....	.....
Metallurgical Analysis.....	451	3	5	451	3	29	.....	.....	.....	.....	.....	.....
Ceramic Analysis.....	452	4	22	.....	.....	.....
Ceramic Analysis.....	453	4	20
Metallurgical Analysis.....	454	4	10	454	4	10	.....	.....	.....
Fuels and Fuel Testing.....	601	5	13	.....	.....	.....	.....	.....	.....
Iron and Steel Metallurgy.....	605	4	10	.....	.....	.....
Non-Ferrous Metallurgy.....	610	5	10
Principles of Ore Dressing.....	620	5	10	620	5	11	.....	.....	.....
Inspection Trip.....	645	.....	7
Pyrometry.....	650	2	18	.....	.....	.....	.....	.....	.....
Fuels.....	651	3	35	651	3	48	.....	.....	.....
Gas Testing and Calorimetry.....	652	1	52	.....	.....	.....	.....	.....	.....
Technical Gas and Fuel Analysis.....	655	3	5	.....	.....	.....
General Metallurgy.....	655	5	43
Advanced Metallography.....	701	4	8	.....	.....	.....	.....	.....	.....
Heat Treatment and Special Steels.....	702	3	8	.....	.....	.....
Metallurgical Construction.....	705	4	6	.....	.....	.....

Metallurgical Construction.....	.....	.....	.....	.....	.....	.....	.....	.....	706	4	6
Metallurgical Investigations.....	.....	.....	.....	.....	.....	710	3	4	.....	.....	.....
Metallurgical Investigations.....	.....	.....	.....	.....	.....	.....	.....	.....	711	5	7
Ore Dressing.....	.....	.....	720	3	7	.....	.....	.....	.....	.....	.....
Thesis .....	.....	.....	.....	.....	.....	.....	.....	.....	725	5	7

MILITARY SCIENCE AND TACTICS

Infantry, Basic (first year).....	.....	.....	401	1	1410	402	1	1349	403	1	1136
Infantry, Basic (second year).....	.....	.....	404	1	785	405	1	749	406	1	675
Infantry, Advanced (first year).....	.....	.....	507	3	50	508	3	49	509	3	49
Infantry, Advanced (second year).....	.....	.....	501	3	31	511	3	30	512	3	29
Field Artillery, Basic (first year).....	.....	.....	421	1	293	422	1	303	423	1	256
Field Artillery, Basic (second year).....	.....	.....	424	1	198	425	1	193	426	1	191
Field Artillery, Advanced (first year).....	.....	.....	527	3	43	528	3	34	529	3	36
Field Artillery, Advanced (second year).....	.....	.....	530	3	15	531	3	17	532	3	17
Signal Corps, Basic (second year).....	.....	.....	444	1	45	445	1	62	446	1	60
Signal Corps, Advanced (first year).....	.....	.....	547	3	53	548	3	50	549	3	50
Signal Corps, Advanced (second year).....	.....	.....	550	3	36	551	3	28	552	3	32
Medical Corps, Basic (first year).....	.....	.....	461	1	28	462	1	17	463	1	14
Medical Corps, Advanced (first year).....	.....	.....	567	1	26	568	1	32	569	1	32
Medical Corps, Advanced (second year).....	.....	.....	570	1	1	571	1	0	572	1	1
Dental Corps, Basic (first year).....	.....	.....	451	1	30	452	1	34	453	1	35
Dental Corps, Basic (second year).....	.....	.....	454	1	15	455	1	13	456	1	12
Dental Corps, Advanced (first year).....	.....	.....	557	1	10	558	1	10	559	1	11
Dental Corps, Advanced (second year).....	.....	.....	560	1	33	561	1	37	562	1	33
Veterinary Corps, Basic (first year).....	.....	.....	471	1	5	472	1	4	473	1	5
Veterinary Corps, Basic (second year).....	.....	.....	474	1	12	475	1	12	476	1	11
Veterinary Corps, Advanced (first year).....	.....	.....	578	1	14	579	1	15	580	1	15
Veterinary Corps, Advanced (second year).....	.....	.....	581	1	9	582	1	9	583	1	9

MINE ENGINEERING

Prospecting and Preliminary Operations.....	601	5	4	.....	.....	.....	.....	.....	.....	.....	.....
Mapping	402	2	1	.....	.....	.....	.....	.....	.....	.....	.....
Industrial Work.....	430	5	5	.....	.....	.....	.....	.....	.....	.....	.....
Industrial Work.....	431	5	10	.....	.....	.....	.....	.....	.....	.....	.....
Mine Surveying.....	.....	.....	.....	401	5	16	.....	.....	.....	.....	.....
Development and Methods of Mining.....	.....	.....	.....	701	3	8	.....	.....	.....	.....	.....
Surveying .....	.....	.....	.....	501	5	13	.....	.....	.....	.....	.....
Thesis .....	.....	.....	.....	740	2	2	.....	.....	.....	.....	.....
Mining Investigations.....	.....	.....	.....	801	5	1	.....	.....	.....	.....	.....
Mapping .....	.....	.....	.....	.....	.....	.....	402	2	16	.....	.....
Mine Operations.....	.....	.....	.....	.....	.....	.....	702	5	3	.....	.....
Mine Design.....	.....	.....	.....	.....	.....	.....	711	5	4	.....	.....
Thesis .....	.....	.....	.....	.....	.....	.....	740	2	3	.....	.....
Thesis .....	.....	.....	.....	.....	.....	.....	741	5	2	.....	.....
Mine Investigations.....	.....	.....	.....	.....	.....	.....	750	5	1	.....	.....
Mine Investigations.....	.....	.....	.....	.....	.....	.....	802	5	1	.....	.....
Mine Trip.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	403	0
Surveying	501	5
Prospecting and Preliminary Operations.....	601	5
Inspection Trip.....	630	0

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Mine Examination and Report.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	703	5	6
Mine Design.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	712	5	3
Thesis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	741	5	3
Mine Investigations.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	803	5	1
Graduate Thesis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	1
MINERALOGY												
Crystallography.....	401	2	6	401	2	53	401	2	21	401	2	9
Descriptive Mineralogy.....	402	4	4	402	4	4	402	4	46	402	4	17
Determinative Mineralogy.....	404	4	3	404	4	10	404	4	6	.....	.....	.....
Thermochemical Mineralogy.....	.....	.....	.....	605	3	15	.....	.....	.....	605	4	18
Elementary Microscopic Petrography.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	611	4	3
Microscopic Mineralogy.....	621	5	3	621	5	7	.....	.....	.....	.....	.....	.....
Mineralogical Investigations.....	631	5	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
OBSTETRICS												
Obstetrics 601.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	601	3	93
Obstetrics 602.....	.....	.....	.....	602	3	53	.....	.....	.....	.....	.....	.....
Obstetrics 603.....	.....	.....	.....	.....	.....	.....	603	3	53	.....	.....	.....
Obstetrics 604.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	604	3	53
Obstetrics 605.....	605	2	53	605	2	53	605	2	53	605	2	53
OPHTHALMOLOGY AND OTO-LARYNGOLOGY												
Ophthalmology.....	.....	.....	.....	601	3	93	.....	.....	.....	.....	.....	.....
Oto-Laryngology.....	.....	.....	.....	.....	.....	.....	602	3	92	.....	.....	.....
Operative work in "Ward Clinics-Surgery.".....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PATHOLOGY												
General Pathology.....	.....	.....	.....	.....	.....	.....	601	3	75	602	5	75
Clinical Pathology.....	.....	.....	.....	603	3	93	604	3	93	.....	.....	.....
Surgical Pathology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	605	2	35
Medical Pathology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	606	2	30
Post-mortem Demonstration.....	607	1	10	607	1	90	607	1	90	607	1	90
Advanced Pathology.....	.....	.....	.....	608	3	10	609	3	10	610	3	8
Advanced Special Pathology.....	.....	.....	.....	.....	.....	.....	612	3	3	613	3	1

Advanced Clinical Pathology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	618	3	30
Neuropathology .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	621	1	4
Supervision of Laboratory Work in Ward Clinics at University and St. Francis Hos- pitals .....	.....	.....	.....	601	2	60	602	2	60	603	2	60
Pathology for Dental and Optical Students.....	.....	.....	.....	450	3	27	451	3	27	.....	.....	.....
Pathology of the Eye.....	.....	.....	.....	460	2	12	461	2	12	.....	.....	.....

PHARMACY

Pharmacy, Theoretical.....	.....	.....	.....	401	5	115	401	5	24	.....	.....	.....
Pharmacy, Practical.....	.....	.....	.....	.....	.....	.....	402	5	91	402	5	29
Pharmacy, Practical.....	.....	.....	.....	403	5	21	.....	.....	.....	403	5	94
Pharmacy, Practical.....	.....	.....	.....	404	5	92	404	5	17	.....	.....	.....
Pharmacy, Practical.....	.....	.....	.....	.....	.....	.....	405	5	93	405	5	17
Pharmacy, Practical.....	.....	.....	.....	406	5	20	.....	.....	.....	406	5	85
Materia Medica.....	.....	.....	.....	407	3	82	407	3	19	.....	.....	.....
Materia Medica.....	.....	.....	.....	.....	.....	.....	408	3	79	408	3	16
Materia Medica.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	409	3	75
Pharmaceutical Assaying.....	.....	.....	.....	410	5	3	.....	.....	.....	.....	.....	.....
Pharmaceutical Chemistry.....	.....	.....	.....	.....	.....	.....	411	5	10	.....	.....	.....
Pharmaceutical Chemistry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	412	5	8
Pharmacognosy (microscopic).....	.....	.....	.....	413	3	102	413	3	10	.....	.....	.....
Pharmacognosy (microscopic).....	.....	.....	.....	.....	.....	.....	414	3	90	414	3	10
Pharmacognosy (microscopic).....	.....	.....	.....	415	3	10	.....	.....	.....	415	3	82
Pharmacognosy (microscopic) Advanced.....	.....	.....	.....	416	3	4	.....	.....	.....	.....	.....	.....
Pharmacognosy (microscopic) Advanced.....	.....	.....	.....	.....	.....	.....	417	3	4	.....	.....	.....
Pharmacognosy (microscopic) Advanced.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	418	3	4
Toxicology .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	419	5	84
Pharmaceutical Latin.....	.....	.....	.....	420	4	101	420	4	28	.....	.....	.....
Pharmaceutical Latin.....	.....	.....	.....	.....	.....	.....	421	4	76	421	4	22
Commercial Pharmacognosy.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	422	5	97
Commercial Pharmacy.....	.....	.....	.....	423	2	99	.....	.....	.....	.....	.....	.....
Commercial Pharmacy.....	.....	.....	.....	.....	.....	.....	424	2	100	.....	.....	.....
Pharmaceutical Problems.....	.....	.....	.....	425	2	121	425	1	20	.....	.....	.....
Pharmaceutical Problems.....	.....	.....	.....	.....	.....	.....	426	1	103	426	1	18
Urinary Analysis.....	.....	.....	.....	.....	.....	.....	427	3	22	427	3	75
Current Literature (Pharm. Abstracts).....	.....	.....	.....	.....	.....	.....	428	2	26	428	2	76

PHILOSOPHY

Introduction to Philosophy.....	401	5	59	401	5	79	401	5	106	401	5	109
Introductory Logic.....	402	5	20	402	5	25	402	5	63	402	5	118
Elementary Ethics.....	.....	.....	.....	405	5	37	405	5	63	405	5	73
Origin and Development of Religious Ideas.....	.....	.....	.....	408	5	16	.....	.....	.....	.....	.....	.....
Esthetics .....	.....	.....	.....	.....	.....	.....	415	5	47	.....	.....	.....
History of Ancient and Medieval Philosophy..	601	5	14	601	5	19	.....	.....	.....	.....	.....	.....
History of Modern Philosophy.....	.....	.....	.....	.....	.....	.....	602	5	21	.....	.....	.....
Contemporary Philosophy.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	603	3	10
Advanced Ethics.....	.....	.....	.....	605	5	5	.....	.....	.....	.....	.....	.....
Aristotle and Plotinus.....	624	3	3
Representative Pre-Kantian Philosophers.....	625	3	3

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	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Representative Post-Kantian Philosophers.....	.....	.....	.....	.....	.....	.....	626	3	12	.....	.....	.....
Philosophy of Science.....	.....	.....	.....	.....	.....	.....	652	3	3	.....	.....	.....
Social Ethics.....	656	3	19	.....	.....	.....	.....	.....	.....	656	3	47
Metaphysics of Knowledge and Nature.....	661	3	11	.....	.....	.....	661	3	5	.....	.....	.....
Metaphysics of Personality and Values.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	662	3	13
Pragmatism.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	670	3	14
Seminary.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	803	3	2
Research.....	808	3-10	7	809	3-10	4	810	3	4	811	3-10	4
Seminary in Social and Political Philosophy.....	.....	.....	.....	815	3	4	816	3	2	817	3	2
PHYSICAL EDUCATION												
MEN												
Hygiene.....	401	1	19	400	1	514	400	1	500	400	1	491
Physical Education.....	404	1	22	401	1	1903	402	1	1782	403	1	1409
WOMEN												
Hygiene.....	400	1	22	400	1	406	400	1	273	400	1	157
Physical Education.....	424	1	21	421	1	745	423	1	742	423	1	694
Physical Education.....	428	1	25	425	1	580	426	1	587	427	1	603
NORMAL												
Theory and Practice of Physical Education....	.....	.....	.....	441	2	9	442	2	8	443	2	8
Folk Dancing.....	461	2	29	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elementary Interpretative Dancing.....	464	1	19	.....	.....	.....	.....	.....	.....	.....	.....	.....
Advanced Interpretative Dancing (Combined with 464).....	466	1	0	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sports Technique.....	470	1	9	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sports Technique.....	471	1	20	.....	.....	.....	.....	.....	.....	.....	.....	.....
First Aid.....	473	1	98	473	1	25	.....	.....	.....	.....	.....	.....
Organization and Administration of Physical Education in Secondary Schools.....	481	1	16	.....	.....	.....	.....	.....	.....	.....	.....	.....
Play and Playground.....	482	3	19	.....	.....	.....	.....	.....	.....	.....	.....	.....
School Room Gymnastics and Games.....	483	1	13	.....	.....	.....	.....	.....	.....	.....	.....	.....
Swedish Gymnastics (Discontinued).....	484	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Light Apparatus.....	488	1	19	.....	.....	.....	.....	.....	.....	.....	.....	.....
Principles of Coaching Football.....	501	2	26	501	2	18

THE WORK OF INSTRUCTORS—1923-1924—Continued

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Seminary in Physics.....	812	1	1	.....	.....	.....	812	1	2
Electronic Theory and Atomic and Molecular Structure	813	3	3	.....	.....	.....	.....	.....	.....
Electronic Theory and Atomic and Molecular Structure	815	3	3
Radioactivity	822	3	3
Research Laboratory.....	830	3	*4	830	3	*9	.....	.....	.....	.....	.....	.....
Research Laboratory.....	831	3	*11	.....	.....	.....
Research Laboratory.....	832	3	†12
PHYSIOLOGICAL CHEMISTRY, PHARMACOLOGY, AND MATERIA MEDICA												
Physiological Chemistry.....	601	5	79	.....	.....	.....	.....	.....	.....
Physiological Chemistry.....	602	5	65	.....	.....	.....
Physiological Chemistry.....	603	3	30	.....	.....	.....	.....	.....	.....
Materia Medica.....	606	5	66	.....	.....	.....
Pharmacology	605	5	76
Physiological Chemistry.....	401	3	30
Physiological Chemistry.....	802	5	2	.....	.....	.....
Physiological Chemistry.....	803	5	2
PHYSIOLOGY												
Physiology	401	5	71	.....	.....	.....	.....	.....	.....
Physiology	402	5	45	.....	.....	.....
General Physiology.....	403	5	243	403	5	66	.....	.....	.....
General Physiology.....	404	5	239	404	5	68
General Physiology.....	405	5	10
General Physiology.....	413	4	18	.....	.....	.....
Comparative Physiology.....	414	4	18	.....	.....	.....
Comparative Physiology.....	415	4	17
Comparative Physiology.....	419	5	99
Principles of Physiology.....
Physiology (Dental).....	429	3	4	.....	.....	.....	.....	.....	.....
Physiology of the Eye.....	440	3	17	.....	.....	.....	.....	.....	.....
Advanced Physiology.....	604	6	125
Advanced Physiology.....	605	6	100	.....	.....	.....	.....	.....	.....

Physiological Laboratory.....	.....	.....	.....	611	5	4	611	5	1	.....	.....	.....
Physiological Laboratory.....	.....	.....	.....	612	5	1	612	5	25	.....	.....	.....
Physiological Laboratory.....	.....	.....	.....	613	5	1	613	5	1	613	5	6
Research Physiology: Major.....	.....	.....	.....	804	15	1	.....	.....	.....	.....	.....	.....
Research Physiology: Major.....	.....	.....	.....	.....	.....	.....	805	10	1	.....	.....	.....
Research Physiology: Major.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	806	10	1
POLITICAL SCIENCE												
Government of the United States.....	401	5	36	401	5	228	401	5	125	401	5	149
Governments of Europe.....	402	5	12	402	5	31	402	5	114	402	5	55
American State and Local Governments.....	.....	.....	.....	.....	.....	.....	403	5	42	403	5	60
State Legislative and Administrative Problems.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	604	3	21
Municipal Government.....	607	5	16	607	5	27	.....	.....	.....	.....	.....	.....
Municipal Government (Summer).....	357	2	9	.....	.....	.....	.....	.....	.....	.....	.....	.....
Municipal Functions.....	.....	.....	.....	.....	.....	.....	608	3	13	.....	.....	.....
Introduction to Jurisprudence.....	.....	.....	.....	611	5	35	.....	.....	.....	.....	.....	.....
International Law.....	.....	.....	.....	.....	.....	.....	612	5	17	.....	.....	.....
Contemporary International Politics.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	613	5	26
American Constitutional Law.....	.....	.....	.....	616	3	7	.....	.....	.....	.....	.....	.....
History of Political Theories.....	.....	.....	.....	.....	.....	.....	619	3	9	.....	.....	.....
Methods of Governmental Research.....	631	2	12	.....	.....	.....	.....	.....	.....	.....	.....	.....
Research in Political Science (Graduate).....	801	3-5	8	801	3-5	2	802	3-5	2	803	3-5	2
POULTRY HUSBANDRY												
Farm Poultry.....	.....	.....	.....	401	2½	55	401	2½	39	.....	.....	.....
Breeds of Poultry and Poultry Feeding.....	.....	.....	.....	402	5	10	.....	.....	.....	.....	.....	.....
Poultry Housing and Marketing.....	.....	.....	.....	.....	.....	.....	403	3	4	.....	.....	.....
Incubation, Brooding, and Breeding.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	404	5	12
Hatchery Management.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	407	5	1
Special Problems in Poultry Husbandry.....	.....	.....	.....	701	3-5	1	701	3-5	1	701	3-5	1
PRINCIPLES AND PRACTICE OF EDUCATION												
Principles of Education.....	301	2	109	401	5	154	401	5	80	401	5	207
Principles of Education.....	302	2	77	.....	.....	.....	.....	.....	.....	.....	.....	.....
Conceptions of Mind in Educational Theory.....	354	2	22	620	3	45	.....	.....	.....	.....	.....	.....
Modern Tendencies in Education.....	356	2	44	.....	.....	.....	.....	.....	.....	640	3	29
Seminary in Educational Theory.....	801	3	7	802	3	6	803	3	15	804	3	9
Teaching of Common Branches.....	304	2	27	.....	.....	.....	.....	.....	.....	.....	.....	.....
Teaching of Common Branches.....	305	2	29	.....	.....	.....	.....	.....	.....	.....	.....	.....
Teaching of Common Branches.....	306	2	26	.....	.....	.....	.....	.....	.....	.....	.....	.....
Methods of Teaching in Rural Schools.....	307	2	31	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rural School Curriculum.....	308	2	15	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rural Project Teaching.....	309	2	21	.....	.....	.....	.....	.....	.....	.....	.....	.....
Principles and Methods of High School Teaching.....	312	2	37	410	5	28	410	5	105	.....	.....	.....

* Two of these joint theses with Chemistry Department.

† Three of these joint theses with Chemistry Department.

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Principles and Methods of High School Teaching	313	2	33	.....	.....	.....	.....	.....	.....	.....	.....	.....
Principles and Methods of Junior High School Teaching	314	2	19	.....	.....	.....	.....	.....	.....	.....	.....	.....
Principles and Methods of Junior High School Teaching	315	2	19	.....	.....	.....	.....	.....	.....	.....	.....	.....
Social Aims in Education.....	325	2	33	.....	.....	.....	.....	.....	.....	.....	.....	.....
Social Aims in Education.....	326	2	19	.....	.....	.....	.....	.....	.....	.....	.....	.....
The School and the Community.....	327	2	42	.....	.....	.....	460	5	30	.....	.....	.....
Moral Ideals in Education.....	350	2	47	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cultural and Vocational Ideals in Education..	352	2	40	.....	.....	.....	.....	.....	.....	.....	.....	.....
Supervision of Elementary School Teaching...	360	2	40	613	5	4	.....	.....	.....	.....	.....	.....
Supervision of Elementary School Teaching...	361	2	22	.....	.....	.....	.....	.....	.....	.....	.....	.....
Problems in Secondary Education.....	362	2	28	.....	.....	.....	.....	.....	.....	.....	.....	.....
Problems in Secondary Education.....	363	2	10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Methods and Problems of Physical Sciences...	364	2	22	660	4	8	661	4	4	.....	.....	.....
Methods and Problems of Physical Sciences...	365	2	16	.....	.....	.....	.....	.....	.....	.....	.....	.....
Principles and Methods of Elementary School Teaching	430	2	49	430	3	6	.....	.....	.....	.....	.....	.....
Minor Problems.....	650	2-4	6	.....	.....	.....	652	2-4	30	653	2-4	6
Seminary in Secondary Education.....	810	2	11	.....	.....	.....	.....	.....	.....	.....	.....	.....
Major Research.....	850	3-	1	.....	.....	.....	852	3-	2	853	3-	3
Practice Teaching in Secondary Schools.....	.....	.....	.....	440	5	70	.....	.....	.....	440	5	102
Supervision of Teaching.....	.....	.....	.....	610	5	3	.....	.....	.....	.....	.....	.....
Seminary in Elementary Education.....	.....	.....	.....	824	3	5	.....	.....	.....	825	3	8
Doctrine of Interest and Apperception.....	.....	.....	.....	.....	.....	.....	643	3	37	.....	.....	.....
Elementary School Standards.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	498	5	27
Introductory Participation in Teaching.....	.....	.....	.....	497	3	5	.....	.....	.....	.....	.....	.....
PSYCHOLOGY												
Elementary Psychology.....	401	5	184	401	5	736	401	5	412	401	5	547
Elementary Psychology.....	402	5	40	402	5	295	402	5	484	402	5	304
Elementary Psychology.....	.....	.....	.....	403	5	8	.....	.....	.....	.....	.....	.....
Elementary Psychology.....	.....	.....	.....	.....	.....	.....	404	5	8	.....	.....	.....
Introductory Psychology.....	.....	.....	.....	405	5	12	.....	.....	.....	.....	.....	.....
Educational Psychology.....	407	5	189	407	5	236	407	5	167	407	5	132

Psychology of Effective Study.....	411	3	8	.....	.....	411	3	9	.....	.....	.....
Experimental Psychology—Introduction.....	601	3	5	601	3	13	.....	.....	.....	.....	.....
Experimental Psychology—Intermediate.....	.....	.....	.....	.....	.....	.....	602	3	6	.....	.....
Experimental Psychology—Advanced.....	.....	.....	.....	.....	.....	.....	.....	.....	603	3	2
Physiological Psychology.....	.....	.....	.....	605	3	33	.....	.....	.....	.....	.....
Physiological Psychology.....	.....	.....	.....	.....	.....	.....	606	3	20	.....	.....
Genetic Psychology and Child Study.....	607	5	27	.....	.....	.....	.....	.....	607	5	122
Mental and Social Measurement.....	608	3	7	.....	.....	.....	.....	.....	608	3	28
Treatment of Exceptional Children.....	609	3	26	.....	.....	.....	.....	.....	609	3	36
The Defective Child.....	611	3	35	611	3	44	.....	.....	.....	.....	.....
Mental and Educational Tests.....	613	3	68	613	3	15	.....	.....	.....	.....	.....
Problems of Test Work.....	614	3	6	.....	.....	.....	.....	.....	614	3	9
Laboratory in Mental and Educational Tests..	615	3	14	.....	.....	.....	615	3	6	.....	.....
Technique of Mental Testing.....	616	2	12	616	2	8	616	2	9	616	2
Psychological Clinic.....	617	2	2	.....	.....	.....	619	2	8	620	2
Social Psychology.....	621	5	21	.....	.....	.....	621	5	72	.....	.....
Folk Psychology.....	.....	.....	.....	623	3	18	.....	.....	.....	.....	.....
Animal Psychology.....	.....	.....	.....	.....	.....	.....	627	3	12	.....	.....
Advanced Psychology.....	629	5	13	.....	.....	.....	629	5	18	.....	.....
Psychology of Feeling and Emotion.....	.....	.....	.....	.....	.....	.....	.....	.....	630	5	18
Psychology of Language.....	.....	.....	.....	.....	.....	.....	633	3	9	.....	.....
Criminal and Legal Psychology.....	.....	.....	.....	.....	.....	.....	634	5	53	.....	.....
Psychology of Advertising.....	.....	.....	.....	635	3	66	.....	.....	.....	.....	.....
Advertising Laboratory.....	.....	.....	.....	.....	.....	.....	636	3	6	.....	.....
Industrial Psychology.....	.....	.....	.....	637	3	22	.....	.....	.....	.....	.....
Industrial and Vocational Psychology Labora- tory.....	.....	.....	.....	.....	.....	.....	.....	.....	638	3	2
Psychology and Personnel.....	.....	.....	.....	.....	.....	.....	639	3	21	.....	.....
Abnormal Psychology.....	641	5	20	.....	.....	.....	641	5	58	.....	.....
Psychopathology.....	.....	.....	.....	.....	.....	.....	.....	.....	642	3	87
History of Psychology.....	.....	.....	.....	645	5	10	.....	.....	.....	.....	.....
Principles of Human Behavior.....	.....	.....	.....	.....	.....	.....	.....	.....	646	3	15
Minor Problems.....	650	2-3	12	650	2-3	11	650	2-3	7	650	2-3
Psychology of Elementary School Subjects...	651	3	11	.....	.....	.....	651	3	9	.....	.....
Psychology of High School Subjects.....	652	3	17	652	3	12	.....	.....	.....	.....	.....
Major Research.....	801	3-5	2	801	3-5	12	801	3-5	11	801	3-5
Seminary in Psychology.....	.....	.....	.....	803	2	10	803	2	6	803	2
Contemporary Psychological Literature.....	805	1	5	805	1	5	805	1	3
Psycho-Analysis.....	808	2	10

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
ADVANCED AND GRADUATE COURSES												
Personal Hygiene.....	.....	.....	.....	.....	.....	.....	601	3	45	.....	.....	.....
Personal Hygiene.....	.....	.....	.....	.....	.....	.....	801	3	0	.....	.....	.....
Public-health Problems.....	.....	.....	.....	602	3	16	.....	.....	.....	.....	.....	.....
Public-health Problems.....	.....	.....	.....	802	4	1	.....	.....	.....	603	3	38
Industrial Hygiene.....	.....	.....	.....	.....	.....	.....	603	3	25	.....	.....	.....
Industrial Hygiene.....	.....	.....	.....	.....	.....	.....	803	5	0	.....	.....	.....
Preventive Medicine.....	.....	.....	.....	604	2	54	.....	.....	.....	.....	.....	.....
Preventive Medicine.....	.....	.....	.....	804	2	1	.....	.....	.....	604	2	2
Demography.....	.....	.....	.....	Withdrawn 1924 (No instructor or facilities)			.....	.....	.....	807	2	0
Social Service and Public-health Nursing.....	.....	.....	.....	.....	.....	.....	808	2	0	.....	.....	.....
Communicable Diseases.....	.....	.....	.....	809	4	0	.....	.....	.....	.....	.....	.....
Public-health Engineering.....	.....	.....	.....	811	3	0	812	3	0	813	3	0
Public-health Laboratory.....	.....	.....	.....	Withdrawn 1924* (No instructor or facilities)			814	4	0	815	4	0
Major Research.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	816	6	0
SCIENCE NURSING COURSES.....	(501 to 516 inclusive)			No registrants.			(Awaiting accommodations.)			(Recent Courses.)		
EDUCATIONAL NURSING COURSES.....	(651 653, 656, 658, 659)			No registrants.								
WORK BY STAFF FOR OTHER UNIVERSITY DEPARTMENTS.												
Medicine—General and Clinical (complimentary).....	.....	.....	.....	602	2 of 5	48	603	2 of 5	48	.....	.....	.....
Dispensary Clinics (in charge of Nursing Service).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
University Hospital.....	(4 complimentary lectures on common			lectures on common			diseases.			12		
Mechanical Engineering (Industrial).....	(11 complimentary lectures and 3 exams.			lectures and 3 exams.						713 ½ of 3 45		
General Hospital No. 99, Organized Reserves U. S. Army in charge of organization	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Miscellaneous Departments.....	Several lectures			covering phases of pub			lic health.					
ROMANCE LANGUAGES												
FRENCH												
Elementary French.....	401	5	36	401	5	260	401	5	122	401	5	65
Elementary French.....	402	5	21	402	5	87	402	5	187	402	5	110
Intermediate French.....	403	5	19	403	5	214	403	5	79	403	5	136
Intermediate French.....	404	5	15	404	5	87	404	5	146	404	5	58

Elementary Course in Reading of French.....	405	5	6	405	5	9	406	5	6	405	5	3
Elementary Course in Reading of French.....												
Advanced French.....				407	5	23						
French Literature of Seventeenth Century.....	601	5	12				601	5	27			
French Literature of Seventeenth Century.....				602	5	28				602	5	20
French Literature of Nineteenth Century.....				603	5	42				603	5	34
French Literature of Nineteenth Century.....	604	5	16				604	5	36			
Eighteenth Century Prose.....				607	3	18						
Eighteenth Century Drama.....							608	3	8			
French Novel of Sixteenth, Seventeenth, and Eighteenth Centuries.....				609	3	10						
Elementary French Conversation and Composi- tion												
French Diction.....	529	3	7							622	3	18
The Teaching of French.....												
Intermediate French Conversation and Com- position				623	3	20				623	3	8
Intermediate French Conversation and Com- position										624	3	9
Explication de Textes.....							625	3	8			
Explication de Textes.....										626	3	10
French Phonetics.....				627	3	12	627	3	12	627	3	9
Review of French Syntax.....							628	3	24			
Introduction to Romance Philology.....	801	3	4	802	3	4						
Introduction to Romance Philology.....						Not given						
Old Provençal.....				803	3	1						
Research in French Literature.....	809			809						809		2
Seminary in French Literature.....							811	3	6			
Seminary in French Literature.....										812	3	6
ITALIAN												
Elementary Italian.....	401	5	11	401	5	35				401	5	35
Elementary Italian.....							402	5	27			
Modern Italian Literature.....							601	5	13			
Modern Italian Literature.....										602	5	16
Survey of Italian Literature.....	609	3	4	609	3	14						
Survey of Italian Literature.....							610	3	7			
Dante's Life and Works.....				611	3	3						
Dante's Life and Works.....							612	3	3			
SPANISH												
Elementary Spanish.....	401	5	47	401	5	552	401	5	201	401	5	152
Elementary Spanish.....	402	5	21	402	5	168	402	5	464	402	5	183
Intermediate Spanish.....	403	5	17	403	5	202	403	5	117	403	5	274
Intermediate Spanish.....	404	5	3	403	5	74	404	5	117	404	5	72
Commercial Spanish.....				405	3	24				405	3	30
Customs and Manners of Spain.....							406	3	31			

* Students will pursue equivalent courses in the Department of Sanitary Engineering and a new course in Public Health entitled "Medical Aspects of Sanitary Engineering," 1924—

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Advanced Spanish.....	603	5	7	603	5	29	604	5	39	603	5	45
Advanced Spanish.....	606	3	6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Advanced Composition and Conversation.....	607	5	13	607	5	11	608	5	12	.....	.....	.....
The Modern Spanish Novel.....	.....	.....	.....	611	5	10	612	5	7	.....	.....	.....
Drama of the Golden Age.....	614	5	7	.....	.....	.....	.....	.....	.....	.....	.....	.....
Drama of the Golden Age.....	.....	.....	.....	.....	.....	.....	615	5	4	.....	.....	.....
Prose of the Golden Age.....	.....	.....	.....	.....	.....	.....	617	3	7	616	5	15
Survey of Spanish Literature from Earliest Times to End of Nineteenth Century.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	618	3	17
Survey of Spanish Literature from Earliest Times to End of Nineteenth Century.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	806	3	3
Advanced Syntax.....	618	3	2	805	3	3	810	5	4	810	5	1
The Teaching of Spanish.....	.....	.....	.....	810	5	1	.....	.....	.....	815	3	7
Old Spanish.....	810	5	1	815	3	7	816	3	6	.....	.....	.....
Research in Spanish Literature.....	815	3	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminary in Spanish Literature.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminary in Spanish Literature.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
RURAL ECONOMICS												
Agricultural Economics.....	.....	.....	.....	401	5	37	401	5	25	.....	.....	.....
Agricultural Economics.....	.....	.....	.....	401	5	10	401	5	19	.....	.....	.....
Farm Management.....	.....	.....	.....	402	5	30	.....	.....	.....	.....	.....	.....
Farm Management.....	.....	.....	.....	402	5	8	.....	.....	.....	.....	.....	.....
Farm Bookkeeping.....	.....	.....	.....	403	3	11	403	.....	7	.....	.....	.....
The Distribution of Farm Products.....	.....	.....	.....	.....	.....	.....	404	5	50	404	5	17
Rural Community Development.....	405	5	9	405	5	11	.....	.....	.....	.....	.....	.....
Accounting for Country Elevators.....	.....	.....	.....	.....	.....	.....	602	3	12	601	3	2
Farm Cost Accounting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Co-operation in Agriculture.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	603	3	17
Land Tenure.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	604	3	6
The Agricultural Industry.....	.....	.....	.....	.....	.....	.....	605	3	15	.....	.....	.....
Sociology of Farm Folk.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rural Organization.....	607	3	10	.....	.....	.....	608	3	5	.....	.....	.....
Rural Social Outlook.....	.....	.....	.....	.....	.....	.....	609	3-5	9	609	3-5	8
Special Problems.....	609	.....	3	609	3-5	9	.....	.....	.....	.....	.....	.....

Country Life.....	.....	.....	.....	.....	.....	.....	Short Course	5	22	.....	.....	.....
Farm Management.....	.....	.....	.....	.....	.....	.....	Short Course	5	22	.....	.....	.....
Farm Accounts.....	.....	.....	.....	.....	.....	.....	Short Course	5	15	.....	.....	.....
Marketing and Co-operation.....	.....	.....	.....	.....	.....	.....	Short Course	5	20	.....	.....	.....

SCHOOL ADMINISTRATION

Public Education in the United States.....	401	3	179	401	3	106	401	3	102	401	3	111
Child Accounting.....	601	3	112	601	3	46	601	3	80	601	3	91
School Hygiene.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	602	3	30
Curriculum Building.....	603	3	30	603	3	10	.....	.....	.....	.....	.....	.....
Administration of the Curriculum.....	604	3	17	.....	.....	.....	604	3	10	.....	.....	.....
The Teaching Corps.....	605	3	21	.....	.....	.....	605	3	8	.....	.....	.....
Building and Equipment.....	606	3	12	606	3	15	.....	.....	.....	.....	.....	.....
School Finance.....	607	3	46	.....	.....	.....	.....	.....	.....	607	3	9
Extra Curricular Activities.....	609	3	16	.....	.....	.....	609	3	7	.....	.....	.....
Administration of Rural Education.....	610	3	18	.....	.....	.....	.....	.....	.....	610	3	4
Comparative School Administration in United States .....	.....	.....	.....	611	3	8	.....	.....	.....	.....	.....	.....
Comparative School Administration in Foreign Countries	612	3	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Educational Statistics.....	613	3	91	613	3	3	.....	.....	.....	.....	.....	.....
Administration of Mental Tests.....	614	3	10	.....	.....	.....	614	3	10	.....	.....	.....
Administration of Educational Tests.....	615	3	40	.....	.....	.....	.....	.....	.....	615	3	4
Minor Research Problems.....	617	2-4	12	618	2-4	15	619	2-4	14	620	2-4	9
Proseminary (Teachers in Service).....	.....	.....	.....	621	2	12	622	2	16	623	2	8
Seminary in School Administration.....	802	2-5	64	802	2-5	9	802	2-5	12	802	2-5	10
Ad Interim Projects.....	.....	.....	.....	803	2-5	3	803	2-5	3	803	2-5	40
Major Research Problems.....	804	3 or more	9	805	3 or more	4	806	3 or more	2	806	3 or more	2

SOCIOLOGY

Principles of Sociology.....	401	5	111	401	5	226	401	5	198	401	5	215
Principles of Sociology.....	402	5	31	402	5	103	402	5	179	402	5	54
Elements of Social Administration.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	406	5	5
Principles of Sociology.....	.....	.....	.....	410	5	38	410	5	42	410	5	79
Physical Anthropology.....	.....	.....	.....	411	5	29	.....	.....	.....	.....	.....	.....
Social Anthropology.....	.....	.....	.....	.....	.....	.....	412	5	45	.....	.....	.....
Primitive Man in Ohio.....	.....	.....	.....	500	2	28	500	2	43	.....	.....	.....
The Family.....	.....	.....	.....	601	4	45	.....	.....	.....	601	4	72
The Immigrant.....	.....	.....	.....	605	4	25	.....	.....	.....	.....	.....	.....
Promotion of Citizenship.....	.....	.....	.....	.....	.....	.....	606	4	13	.....	.....	.....
American Race Problems.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	607	4	15
Poverty and Dependence.....	.....	.....	.....	615	4	29	.....	.....	.....	.....	.....	.....
The Handicapped, Defectives, and Dependents.....	.....	.....	.....	.....	.....	.....	616	4	36	.....	.....	.....
Needy Families and Children.....	617	4	26	.....	.....	.....	.....	.....	.....	617	4	35
The Criminal.....	.....	.....	.....	625	3	64	.....	.....	.....	.....	.....	.....

[illegible]

First 4 weeks—Soil Management.....	.....	.....	.....	.....	.....	.....	5	34	.....	.....	.....
Second 4 weeks—Limestone and Fertilizers..	.....	.....	.....	.....	.....	.....	5	18	.....	.....	.....
SURGERY												
Minor Surgery.....	.....	.....	.....	.....	.....	.....	.....	.....	601	3	75	
General Surgery.....	.....	.....	602	5	91	603	5	92	604	5	90	
Gynecology.....	.....	.....	.....	.....	.....	.....	.....	.....	605	3	90	
Hospital Ward Clinics Surgery.....	.....	.....	601	2	53	602	2	53	603	2	53	
Conference Clinics.....	.....	.....	607	1	53	608	1	53	609	1	53	
Operative Surgery.....	.....	.....	610	2	53	.....	.....	.....	.....	.....	.....
Orthopedic Surgery.....	.....	.....	.....	.....	.....	606	1	53	.....	.....	.....
Roentgenology (Elective).....	.....	.....	611	2	23	.....	.....	.....	.....	.....	.....
VETERINARY MEDICINE												
Anatomy (Osteology of Domestic Animals)....	.....	.....	.....	401	5	11	.....	.....	.....	.....	.....
Anatomy (Arthrology, Myology, etc.).....	.....	.....	.....	.....	.....	.....	402	6	11	403	6	12
Anatomy (Topographical Anatomy of Domest-	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ic Animals).....	404	6	6	404	6	13	.....	.....	.....	.....	.....
Anatomy (Topographical Anatomy of Domest-	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ic Animals).....	405	6	6	.....	.....	.....	.....	.....	.....	405	6	11
Anatomy (Topographical Anatomy of Domest-	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ic Animals).....	406	6	6	.....	.....	.....	.....	.....	.....	406	6	11
*Applied Anatomy.....	.....	.....	.....	.....	.....	.....	Not given		.....	.....	.....
General Pathology.....	.....	.....	.....	421	3	4	.....	.....	.....	421	5	13
General Pathology.....	.....	.....	.....	422	2	22	.....	.....	.....	.....	.....	.....
Special Pathology.....	.....	.....	.....	.....	.....	.....	423	4	24	424	4	24
Post-mortem and Laboratory Diagnosis.....	.....	.....	.....	425	2	6	425	2	6	425	2	6
Special Pathology of Infectious Diseases.....	.....	.....	.....	426	4	21	.....	.....	.....	.....	.....	.....
Meat Inspection.....	.....	.....	.....	.....	.....	.....	427	3	18	.....	.....	.....
Parasitology.....	.....	.....	.....	.....	.....	.....	428	4	18	.....	.....	.....
Medical and Surgical Clinics.....	.....	.....	.....	467	3	20	468	3	20	469	3	23
Medical and Surgical Clinics.....	.....	.....	.....	470	3	18	471	3	18	472	3	18
Special Surgery.....	.....	.....	.....	474	4	18	475	4	18	476	4	18
Physical Diagnosis.....	.....	.....	.....	473	3	20	.....	.....	.....	.....	.....	.....
*Operative Practice.....	.....	.....	.....	477	1	21	.....	.....	.....	.....	.....	.....
Diseases of Small Animals.....	.....	.....	.....	463	3	19	464	4	22	.....	.....	.....
Horseshoeing.....	.....	.....	.....	465	3	1	465	3	22	.....	.....	.....
Materia Medica and Therapeutics.....	.....	.....	.....	.....	.....	.....	461	4	16	462	4	15
Hygiene and Sanitation.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	479	3	34
General Surgery.....	.....	.....	.....	466	4	22	.....	.....	.....	.....	.....	.....
Sporadic Diseases of Large Animals.....	.....	.....	.....	.....	.....	.....	441	4	23	442	4	23
Infectious Diseases of Large Animals.....	.....	.....	.....	443	4	20	444	4	18	.....	.....	.....
Obstetrics.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	478	4	17
Veterinary Medicine for Agricultural Students	.....	.....	.....	451	3	27	452	3	29	453	3	36

We desire to call attention to the fact that, since the Four-quarter Plan has been put into effect, the enrollment in the 401 Course in Soils has been reduced from an average of 169 per year for the two preceding years, on the semester plan, to 70 per year on the Four-quarter Plan. Soils 401 is required of all students in the College of Agriculture. These students, by reason of schedule difficulties, have been prevented from taking the 401 Course until the junior and senior years which has prevented their having opportunity to take the advanced courses offered by the Department. Of 68 students registered in Soils 401 in the Winter Quarter, only 8 were sophomores, although the course is designed for sophomore students.

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Theory and Organization of Vocational Education (Toledo).....	14	12	12	
Trade English (Cincinnati).....	10	10	
Trade Science and Mathematics (Columbus).....	.....	.....	.....	.....	8	.....	.....	8	.....	.....	.....
Instruction—Foreman Training (Cincinnati, Hamilton, Middletown, Columbus, Miamisburg, West Carrollton).....	.....	.....	.....	.....	158	.....	.....	195	.....	.....	195	
ZOOLOGY AND ENTOMOLOGY												
Elementary Zoology.....	401	5	43	401	5	539	401	5	101	401	5	261
Elementary Zoology.....	402	5	34	402	5	46	402	5	413	402	5	93
General Principles of Heredity.....	403	5	9	403	5	53	.....	.....	.....	403	5	99
Animal Parasites.....	.....	.....	.....	.....	.....	.....	404	5	11	.....	.....	.....
Advanced Zoology.....	.....	.....	.....	405	5	13	406	5	16	.....	.....	.....
Animal Microtechnic.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	407	3	7
Ornithology.....	408	5	5	.....	.....	.....	.....	.....	.....	408	5	7
Evolution.....	.....	.....	.....	409	5	20	410	5	20	.....	.....	.....
The Teaching of Biology.....	515	5	8	.....	.....	.....	.....	.....	.....	515	5	15
Advanced Studies in Animal Heredity.....	.....	.....	.....	601	3	11	602	3	4	603	3	3
Animal Ecology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	604	5	4
Animal Behavior.....	.....	.....	.....	605	3-5	11	606	3-5	.....	607	3-5	2
Minor Investigations in Zoology and Entomology.....	610	3-5	10	611	3-5	14	612	3-5	12	613	3-5	15
Seminary in Zoology and Entomology.....	.....	.....	.....	801	1	24	802	1	24	803	1	20
Invertebrate Zoology (Graduate Course).....	.....	.....	.....	805	5	12	806	5	12	807	5	10
Research in Zoology and Entomology.....	810	3-10	8	811	3-10	12	812	3-10	12	813	3-10	11
Economic Entomology.....	451	5	27	451	5	59	.....	.....	.....	451	5	61
Economic Entomology.....	452	5	6	.....	.....	.....	452	5	16	.....	.....	.....
Apiculture.....	453	5	1	.....	.....	.....	.....	.....	.....	453	5	18
Entomological Literature and Principles of Taxonomy.....	.....	.....	.....	.....	.....	.....	456	5	4	.....	.....	.....
Elementary Entomology.....	.....	.....	.....	457	5	3	.....	.....	.....	.....	.....	.....
Advanced Entomology.....	.....	.....	.....	651	5	14	652	5	14	.....	.....	.....
Insect Control.....	.....	.....	.....	653	5	11	.....	.....	.....	654	5	18
Insect Morphology.....	.....	.....	.....	656	5	4	.....	.....	.....	.....	.....	.....

APPENDIX V—Concluded

	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924			
Master of Science			1								1	1	2	2	2			2		3	3	2	3	3	2	1							1	8	6	14	15	25	32	19	8	29	36	44	27	43				
Master of Science (Agriculture)																			1	2		1							1	2	1	3	3	1																
Master of Science (Dom. Sc.)																												1							1															
Master of Science (H. F.)																				1	1	1										1																		
Master of Science in public health																																							3				1	1						
Doctor of Philos- ophy	1																	1							1		1	1		1		2		1	5	1	2	1	3	11	9	4	7	8	13	19	24			
Doctor of Science												1							1		1					1		1	1		1																			
Doctor of Dental Surgery																																																		
Doctor of Medicine																																																		
Juris Doctor																																																		
Bachelor of Laws															9	18	15	16		6	23	22	21	25	17	26	20	11	15	17	26	15	16	22	10	19	18	19	18	24	17	11		15	16	44	37	51		
Master of Laws															2	4	2		6								2	3	1																					
Total	6	7	9	8	9	11	12	16	18	24	28	26	30	36	61	79	70	112	118	135	126	99	137	135	141	170	194	209	225	249	287	333	370	422	501	515	649	793	902	941	565	470	801	970	1054	1255	1382			
Degrees conferred during the year															1													6	0	5	6	5	15									61	67	76	100	98	176			
Totals															80												200	209	230	255	292	348										626	537	877	1070	1152	1431	1382		

* Statistics given prior to 1904 covered only the degrees granted at the Commencement.

APPENDIX VI

SHOWING THE NUMBER OF STUDENTS IN THE GENERAL, TECHNICAL, AND PROFESSIONAL COURSES

	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908
	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
General Courses (College of Arts).....	137	151	194	245	256	322	327	358	371	419	439	403	490	496	490	551	572	630	714
Technical Courses (other Colleges, except Law).....	166	259	381	368	424	453	453	511	541	603	771	888	1039	1135	1129	1262	1280	1436	1626
Professional Courses (College of Law).....		55	67	72	65	100	132	148	191	201	220	188	166	171	179	162	153	138	132
*Graduate Students and Summer School.....	2			1		94	97	133	75	45	51	49	62	108	54	240	339	379	458
**Summer School (Shopwork).....															74	75	81	80	90
Lake Laboratory (Summer).....												19		23	32	26	19	26	32
Totals.....	305	465	642	686	745	969	1009	1150	1178	1268	1481	1547	1757	1933	1958	2316	2444	2659	3052
Names counted twice.....																159	167	216	258
Net total.....																2157	2277	2473	2794

APPENDIX VI—Concluded

	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
General Courses (College of Arts, Commerce and Journalism, and Education...)	845	865	962	1009	1139	1494	1820	2198	2220	2558	3422	3802	4147	4493	5153
Technical Courses (other Colleges, except Dentistry, Homeopathic Medicine, Law, and Medicine).....	1643	1780	1979	2106	2392	2373	2491	2398	1884	2129	2733	3003	2982	2878	2791
Professional Courses (Colleges of Dentistry, Homeopathic Medicine, Law and Medicine).....	181	170	185	198	187	615	556	514	384	300	718	611	688	724	766
Graduate Courses (Graduate School).....	96	70	91	128	133	185	244	233	161	143	208	269	382	488	594
Summer Session.....	606	617	738	575	671	926	1010	1166	918	909	1229	1391	1543	1925	2404
Lake Laboratory (Summer).....	36	22	28	25	32	14	19	15	14	2	11	18	19	17	15
Winter Courses.....	159	183	273	227	203	187	173	187	119	121	178	86	121	87	76
Totals.....	3566	3707	4262	4268	4757	5794	6313	6711	5700	6162	8499	9180	9882	10612	11799
Names counted twice.....	291	268	334	299	322	462	491	523	550	437	682	867	1032	1117	1311
Net total.....	3275	3439	3928	3969	4435	5332	5822	6188	5150	5725	7817	8313	8850	9495	10488

* Until 1896 graduate students have been included in the first three classes.

** Until 1904 summer term students in shopwork have been included with graduate students.

APPENDIX VII

SHOWING DEGREES AND CERTIFICATES GRANTED DURING YEAR ENDING JUNE 30, 1924

GRADUATE SCHOOL

Dean: WILLIAM McPHERSON

SUMMER CONVOCATION—1923

DOCTOR OF PHILOSOPHY

William Hale Charch, A.B. (Miami University), M.Sc.....	Dayton
Edwin Nelson Cole Coolidge, B.A., M.Sc.....	Columbus
Warren Winfred Cox, B.S., (Dakota Wesleyan University).....	Columbus
Roy Israel Grady, B.Sc. (College of Wooster), M.Sc.....	Wooster
Cloyd Delson Looker, B.Sc. in Edu., M.Sc.....	Columbus
Erwin Foster Lowry, B.A., M.A. (Ohio Wesleyan University).....	Columbus
Walter Harrison Moran (West Virginia University), M.Sc.....	Fairmont, W. Va.
(Seven candidates)	

MASTER OF ARTS

Harold Bernard Alberty, Ph.B. (Baldwin University), LL.B. (Cleveland Law School)	Berea
Beulah May Brunner, B.S. (Columbia University).....	St. Louis, Mo.
James Fraser Chalmers, B.S. (Mount Union College).....	Alliance
Frederick Ray Conkling, A.B. (Manchester College).....	Laketon, Ind.
Roscoe Huhn Eckelberry, B.Sc. in Edu.....	Columbus
William Henry Edwards, B.A.....	Washington C. H.
Ruth Frazier, B.A.....	Frazeyburg
Ralph Moore Howell, A.B. (Ohio University).....	Pomeroy
Rupel Johnson Jones, A.B. (Ohio University).....	Athens
Helen May Knott, B.A.....	Tiffin
Yee Chun Koo, B.S. in Commerce (Valparaiso University),.....	Peking, China
Dorothy Leamon, A.B. (Hiram College).....	Croton
Leona Smith Lewis, B.Sc. in Edu.....	Columbus
Carl Henry Meyer, B.A., B.S. (Lima College).....	Canton
Florence Agnes Miller, B.A.....	Columbus
Vincent Harmon Morris, A.B. (Oberlin College).....	Wooster
James Edward Newell, A.B. (Otterbein College).....	Columbus
Robert Thomas Pollard, B.A.....	Toledo
Laura Gillmer Pound, B.Ph. (Grove City College).....	Grove City, Pa.
Mabel Carol Rickenbacher, B.A., B.Sc. in Edu.....	Columbus
Russell Irwin Roubush, B.Sc. Agr.....	Goshen
Hobart Ernest Rowlands, B.A.....	Delaware
William Russell Stemen, A.B. (Ripon College).....	Columbus
Wilbur Hoadly Vance, B.A. (Wilmington College).....	Columbus
Ralph Chester Waters, B.Sc. in Edu.....	Medina
James Warren Wright, B.A. (Ohio Wesleyan University).....	Springfield
Allen Norris Zechiel, B.A. (DePauw University).....	Monroe, Ind.
(Twenty-seven candidates)	

MASTER OF SCIENCE

Theodore Sheldon Eckert, A.B. (Baldwin-Wallace College).....	Berea
Clifford Otis Eddy, B.A., B.Sc. in Edu.....	Raleigh, N. C.
Lela Arminda Ewers, B.Sc. in Edu. (Ohio University).....	Fredericktown
Frank Barnhart Gullum, B.S. (Ohio University).....	Athens
Julia Jaster Kraatz, B.Sc. in Agr.....	Columbus
John Gordon McCrimmon, B.Sc. Agr. (University of Toronto).....	Williamstown, Canada
Elsie Elenora Steiger, B.Sc. in H. E.....	Hamilton
Charles Blount Vance, B.Sc. (Denison University).....	Steubenville
James Holton Wilson, B.A., B.Ch.E.....	Columbus
(Nine candidates)	

CANDIDATES FOR TWO DEGREES

Marie Shover Harper.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
(One candidate)	

COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

BACHELOR OF SCIENCE IN AGRICULTURE

Clarence Rabold Ashenfelter.....	Seville
J. Murrell Baugh.....	New Vienna
Wesley Evers Bovey.....	Columbus
George Faris Brown.....	Newcomertown
Huber Emerson Denlinger.....	Dayton
David Anderson Kearney.....	Frankfort
Kunjilal Lal Mahta.....	Gwalmandi, Lahore, India
William Byron Montague.....	Columbus
Carl William Vandervort.....	Albany
(Nine candidates)	

BACHELOR OF SCIENCE IN HOME ECONOMICS

Olive Tallman Dowdy.....	Columbus
Martha Crum Kennedy.....	Columbus
Alta Beatrice Kizer.....	St. Paris
Helen Esther McKee.....	Columbus
Marjorie Maddox Wilcox.....	Powell
Letha Nixon.....	Peebles
(Six candidates)	

COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Dean: WILLIAM EDWARDS HENDERSON

Acting Dean: M. BLAKEMORE EVANS

BACHELOR OF ARTS

Raymond Ralph Bowser.....	Dayton
Arthur William Brown.....	Bucyrus
Leroy Howland Buckingham (with distinction).....	Columbus
Gerald Hawley Coleman (As of the Class of 1922).....	Cleveland
Mary Elizabeth Conrad (with high distinction).....	Salem
Clarence Fredrick Creedman.....	Cleveland
Harriet Ellen Derwin.....	Columbus
Ralph Lawrence Dewey.....	Solon
Carl Godfrey Easter.....	Columbus
Walter Arthur Edwards.....	Columbus
Claudius Langdon Forney.....	Columbus
Kathryn Dean Hall.....	Columbus
*Marie Shover Harper.....	Columbus
Isaac Delbert Law.....	Salesville
Leo Meyer Levi.....	Zanesville
Clayton George Mally.....	Cleveland
Alice Blake Mill.....	Zanesville
Ormun Durell Miller.....	Bryan
Victoria Luke Mircheff.....	Youngstown
Louise H. Olmstead.....	Columbus
Otho Vinson Overholser, LL.B.....	Richwood
Eugenie Rounsavell Overturf (As of the Class of 1908).....	Columbus
Walter Emile Reisinger.....	Ford City, Pa.
Robert Kenneth Salisbury (with high distinction).....	Russellville
Zorayda Grace Sheets.....	Shelby
Charles G. Shriner.....	Columbus
Elbert Vincent Silver (with distinction).....	Pittsburgh, Pa.

Luther William Stelhorn.....	Columbus
Mary Leone Thurness (with distinction).....	Logan
Nathaniel Charles Wallin.....	Ashtabula
Laura Diana Wendt.....	New York City
Theodore Thomas Wylie.....	Cozaddale
Bernard Hymen Ziskind.....	Columbus

(Thirty-three candidates)

BACHELOR OF SCIENCE

Jay Durkee Bradish.....	Bellevue
John Henry Richardson.....	Spencerville

(Two candidates)

*Two degrees

COLLEGE OF COMMERCE AND JOURNALISM

Dean: JAMES E. HAGERTY

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Howard Aumend.....	Wauseon
James Paul Batterson.....	Columbus
William Daniel Bretz.....	Columbus
Donald Wayland Earl.....	Gahanna
Richard Harrison Evans.....	Columbus
William Morton Farrar.....	London
Ralph Shepard Force.....	Cleveland
Joseph Thomas Gaughran.....	Columbus
Wilmer Edward Isabel.....	Blacklick
Sam Mendlowitz.....	Columbus
Alton Mennell.....	Elyria
William David Murphy, Jr.....	Columbus
Stanely Nash Phillips.....	Columbus
Bradley Skeele.....	Columbus
James Conley Smalley.....	Ironton
Fred Adams Torbert.....	Zanesville
Frank Stimson Williams.....	Columbus

(Seventeen candidates)

BACHELOR OF SCIENCE IN JOURNALISM

James Warren Schlemmer.....	Akron
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(One candidate)

BACHELOR OF SCIENCE IN SOCIAL ADMINISTRATION

Pearl Dewy Graham.....	Columbus
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(One candidate)

COLLEGE OF DENTISTRY

Dean: HARRY M. SEMANS

DOCTOR OF DENTAL SURGERY

David Harry Fischbein.....	Cleveland
Adelbert Kenyon Friend.....	Cleveland
Arthur Cunard Laishley.....	Wheeling, W. Va.
Robert Earl Rainsberger.....	Uhrichsville
Carl Gray Rossel.....	Newark
John David Sarchet.....	Middletown
Herbert Vergil Whitney.....	Danville

(Seven candidates)

COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

BACHELOR OF SCIENCE IN EDUCATION

Roy Oren Billett.....	Marengo
Delores Black.....	Lake View

Meiba Elizabeth Bowen.....	Columbus
William Elgar Browning.....	Greenfield
Rose Connor Crayne.....	Columbus
Jack Francis DePietro.....	Columbus
Anna Katherine Dunbar.....	Columbus
Paul Johnson Fay.....	Rochester, N. Y.
Dorothy Olive Flanders.....	Columbus
Carrie Verness Hagerman.....	Findlay
*Marie Shover Harper.....	Columbus
Jesse Kinner.....	Coshocton
Elizabeth Augusta McCloud.....	Columbus
William Raymond Niday.....	Gallipolis
Grace Elizabeth Orr.....	Chillicothe
Earl Clair Powell.....	McCutchenville
Floyd Nicholas Reinbolt.....	Tiffin
Ethel Clare Schooler.....	Columbus
Hannah Jane Scofield.....	Worthington
Helen Elizabeth Tannehill.....	Columbus
Ruby Phyllis Van Atta.....	Columbus
Edna Mae Warren.....	Stryker
Dorothy Elizabeth Welter.....	Kenton
Ruth Estella Woodcock.....	Columbus
H. Louise Woodford.....	Cleveland
Harry Leighton Zulauf.....	Mt. Gilead
John Byron Zulauf.....	Mt. Gilead

(Twenty-seven candidates)

*Two degrees.

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

Acting Dean: EDWIN F. CODDINGTON

ENGINEER OF MINES

William August Mueller (As of the Class of 1911).....	Cincinnati
(One candidate)	

BACHELOR OF CHEMICAL ENGINEERING

Arthur James Hamilton.....	Fresno
Waldo Charles Portz.....	Columbus
(Two candidates)	

BACHELOR OF ELECTRICAL ENGINEERING

Eugent Schmidt.....	Cleveland
(One candidate)	

BACHELOR OF MECHANICAL ENGINEERING

Clifford Loren Forrest.....	Sandusky
(One candidate)	

BACHELOR OF METALLURGICAL ENGINEERING

Ralph Dewcese Hawkins.....	Canfield
(One candidate)	

COLLEGE OF MEDICINE

Dean: EUGENE FRANKLIN McCAMPBELL

DOCTOR OF MEDICINE

Irene Koons Converse.....	Columbus
Jessie Jasper, B.Sc.....	Hilliards
Joseph Kerr McCreedy, B.Sc.....	Wellsville
Ralph Marion Strayer.....	Degraff
(Four candidates)	

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SUMMARY OF DEGREES

Graduate School.....	43
College of Agriculture.....	15
College of Arts, Philosophy, and Science.....	35
College of Commerce and Journalism.....	19
College of Dentistry.....	7
College of Education.....	27
College of Engineering.....	6
College of Medicine.....	4
	<hr/> 156

Total degrees conferred on men.....	111
Total degrees conferred on women.....	45
	<hr/> 156
Candidates for degrees.....	155
Candidates receiving two degrees.....	1
	<hr/> 156

GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

AUTUMN CONVOCATION—1923

DOCTOR OF PHILOSOPHY

*Marion Donald Coulter, B.S. (Denison University).....	Newark
Mary Beal Housel, B.A., M.A. (Ohio Wesleyan University).....	Columbus
Edward George Meiter, B.S. (Mount Union College), M.Sc.....	Salem
Theunis Johannes Naude, B.Sc. (University of South Africa), M.Sc.....	Heilbron, S. Africa
Joel Bigelow Peterson, B.Sc. (Denison University), M.Sc.....	Chicago, Ill.
(Five candidates)	

MASTER OF ARTS

Ruth Spencer Davis, B.Sc. in H. E.....	Columbus
John Joseph Gerlach, B.Sc. in Bus. Adm.....	Columbus
Kenneth Charles Randall, B.Sc. (Massachusetts Agricultural College).....	Springfield, Mass.
Alice Rosemond, A.B. (Randolph-Macon College).....	Columbus

*Two degrees

Dominic Peter Rotunda, A.B. (Cornell University).....	Columbus
Harold Hastings Shively, A.B. (Ohio University).....	McArthur
Idella Gunn Watson, B.A. (Wittenberg College).....	Springfield
(Seven candidates)	

MASTER OF SCIENCE

Earl Elmer Barnes, B.Sc. in Agr.....	Waterford, Pa.
*Marion Donald Coulter, B.S. (Denison University).....	Newark
Leopoldo Faustino, B.E., E.M.....	Philippine Islands
Albert Stanley Schlingman, D.V.M.....	Eaton
Shirley Leland Starkey, B.Sc. in Agr. (West Virginia University).....	Ravenswood, W. Va.
Charles Leonard Stevens, B.Sc. in Agr.....	Detroit, Mich.
Homer Columbus Thompson, B.Sc. in H. and F.....	Ithaca, N. Y.
(Seven candidates)	

*Two degrees

COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

BACHELOR OF SCIENCE IN AGRICULTURE

Francis Ivan Bell.....	Zanesfield
Bernard Noteman Cryder.....	Irwin

THE OHIO STATE UNIVERSITY

Arlington Lorrain Everitt.....	Warren
Arbor Dell Fields.....	Hamilton
Harold Elias Heller.....	Columbus
Paul Augustus Nussdorfer.....	Uhrichsville
Willis Weisell Rummell.....	Niles
Harold Crawford Tillson.....	Willard
Donald Worth Tripp.....	Toledo

(Nine candidates)

BACHELOR OF SCIENCE IN HOME ECONOMICS

Lucinda Mae Alexander.....	Bellefontaine
Adelaide Elizabeth Ott.....	Columbus

(Two candidates)

COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Dean: WILLIAM EDWARDS HENDERSON

BACHELOR OF ARTS

Glenn Edward Calvin.....	Columbiana
Marion Frances Elliott.....	Columbus
Mark Simeon Evans.....	Columbus
Grace Naomi Harris.....	Royal Oak, Mich.
Abraham Allen Holmes.....	Columbus
William Carl Hukari.....	Ashtabula Harbor
Dorothy Ann Miller.....	Columbus
Clarence Wilmott Olsen.....	Worthington
Alfred Hodgen Pemberton.....	McAlister, Okla.
Dale Seif.....	Galion
Josephine Stambaugh.....	Falls Church, Va.
Frances Lucile White.....	Columbus

(Twelve candidates)

BACHELOR OF SCIENCE

Francis Ward Davis.....	Columbus
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(One candidate)

COLLEGE OF COMMERCE AND JOURNALISM

Dean: JAMES E. HAGERTY

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Russell William Baker.....	Amherst
Thomas Joseph Carroll.....	Columbus
Webster Loviner Davis.....	Columbus
John Webster Gaver.....	Dayton
Finley Hutchinson Hall.....	Dayton
Lyndon Smith Hoch.....	Columbus
Robert Frederick Knapp.....	Nevada
Harold Anthony Montag.....	Columbus
Paul Gerhard Rohlfing.....	Mansfield
Harvey Martin Sobel.....	Utica
Ira Glenn Spade.....	Wauseon
Robert Lee Walsh.....	Fremont
Clayton E. Welty.....	Apple Creek

(Thirteen candidates)

BACHELOR OF SCIENCE IN JOURNALISM

Dallas Remenia Tobin.....	Lancaster
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(One candidate)

BACHELOR OF SCIENCE IN SOCIAL ADMINISTRATION

Catharine Frances David.....	Cleveland
Thelma Leone Seeger.....	Bucyrus

(Two candidates)

COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

BACHELOR OF SCIENCE IN EDUCATION

Nelle Swisher Alexander.....	Columbus
Margaret Adelyn Carter.....	Columbus
Claribel Case, B.A.....	Jefferson
Evelyn Ferne Conkle.....	Worthington
Phoebe Emma Crawford.....	East Liverpool
Helen Marie Fetzner.....	Columbus
Helen May Gerhardt.....	Washington C. H.
Margarite Liggett Hall.....	Cadiz
Harriet Dukes Isaac.....	Columbus
Helen Naomi Johnston.....	Columbus
Margaret Lisette Ketterer.....	Woodsfield
Helen Marguerite Kramer.....	Columbus
Marguerite Maddox.....	Columbus
Ruth Alexandria Marshall.....	Bucyrus
Wilda Mattern.....	Franklin, Pa.
Harriet Mooney.....	Columbus
John Wesley Powelson.....	Etna
Alma Mae Taylor.....	Columbus
Elinore Reed Woldman.....	Barnesville
Faith Mary Wolfe.....	Columbus
Rachel Van Hook Young, B.A.....	Columbus
Isabelle Gibson Ziegler.....	Columbus

(Twenty-two candidates)

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

BACHELOR OF ARCHITECTURE

Clarence Dale Badgeley.....	Springfield
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(One candidate)

BACHELOR OF ARCHITECTURAL ENGINEERING

Efflo Eugene Eggert.....	Mansfield
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(One candidate)

BACHELOR OF CHEMICAL ENGINEERING

Joseph Francis Gorman.....	Toledo
William Lawrence Lonsway.....	Tiffin

(Two candidates)

BACHELOR OF CIVIL ENGINEERING

Robert Elmer Bischoff.....	New Carlisle
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(One candidate)

BACHELOR OF ENGINEERING

Harold Marshall Haylor.....	Columbus
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(One candidate)

BACHELOR OF MECHANICAL ENGINEERING

Frank Gordon Abbey.....	Cleveland
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(One candidate)

COLLEGE OF LAW

Dean: JOHN JAY ADAMS

BACHELOR OF LAWS

Harold Armstrong Jones, B. A. (Yale University).....	Jackson
George Dewey Lewis.....	Warren
Elden Russel Young.....	Bremen

(Three candidates)

THE OHIO STATE UNIVERSITY

COLLEGE OF MEDICINE

Dean: EUGENE F. McCAMPBELL

DOCTOR OF MEDICINE

Homer Lee Mitchell.....	Buena Vista, Ga.
John Sumter Tanner.....	Columbus
Jacob Allen Ziskind, B.Sc.....	Columbus

(Three candidates)

COLLEGE OF VETERINARY MEDICINE

Dean: DAVID STUART WHITE

DOCTOR OF VETERINARY MEDICINE

Frank Gurley Logmis.....	Columbus
Mariano Salvador Pasis.....	Magsingal, Ilocos Sur, P. I.
Herschel J. Wright.....	Columbus

(Three candidates)

COLLEGE OF PHARMACY

Dean: CLAIR ALBERT DYE

CERTIFICATE OF PHARMACEUTICAL CHEMIST

Jay Edwin Goldstein.....	Lakewood
Louis Eugene Handelman.....	Cleveland
Cecil Shepard Hines, B.S. (Denison University), M.A. (Columbia University).....	Granville
Henry Arnold Frederick Myers.....	Columbus
Thomas James Ryan.....	Columbus
Harlow Anthony Stapf.....	Willard
Leonard Roy Twete, D.V.M.....	Thief River Falls, Minn.

(Seven candidates)

SUMMARY OF DEGREES

Graduate School.....	19
College of Agriculture.....	11
College of Arts, Philosophy, and Science.....	35
College of Commerce and Journalism.....	15
College of Education.....	22
College of Engineering.....	7
College of Law.....	3
College of Medicine.....	3
College of Pharmacy (Certificates).....	7
College of Veterinary Medicine.....	3
	104
Total degrees and certificates conferred on women.....	34
Total degrees and certificates conferred on men.....	70
	104
Candidates for degrees and certificates.....	103
Candidates receiving two degrees.....	1
Total degrees and certificates conferred.....	104

GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

WINTER CONVOCATION—1924

DOCTOR OF PHILOSOPHY

Richard Andrew Crawford, B.A., M.Sc.....	Dayton
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Howard Earl Fritz, B.Sc. in Ch. E., M.A.....	Barberton
Arthur Van Henry, Cer. E., M.Sc.....	Columbus

(Three candidates)

MASTER OF ARTS

Cornelius Winfield Fink, B.A. (Muskingum College).....	Dresden
William Hollow Husband, A.B. (University of Michigan).....	Ann Arbor, Mich.
Curtis May, B.A.....	Reynoldsburg
Paul Henry Saleste, B.A. (Muskingum College).....	Coshocton
Jesse Lynn Ward, A.B. (Indiana University).....	Columbus
William Cleveland Wilson, B.A. (Miami University).....	Cincinnati

(Six candidates)

MASTER OF SCIENCE

Edith Bangham, B.Sc. in H. E.....	Wilmington
John William Baringer, A.B. (Wabash College).....	Columbus
John Glenn Bates, B.Sc. in Agr.....	Salem
Hammond Crawford, B.A. (Ohio Wesleyan University).....	Cleveland
Donald Philips Limber, B.A.....	Sheakleyville, Pa.
Dale Martin Phillippi, A.B. (Otterbein College).....	Dayton
John LeRoy Ware, A.B. (Ohio University).....	West Farmington

(Seven candidates)

CANDIDATE FOR TWO DEGREES

Josephine Allegra Blake.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	

(One candidate)

COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

BACHELOR OF SCIENCE IN AGRICULTURE

Harold Gahn Ahrens.....	Danbury
Ralph Isaac Beerbower.....	Hicksville
Sherman Jolly Belknap.....	Pataskala
Franklin Philip Bossart.....	Cleveland
John Denton Bragg.....	Castalia
Clarence Delmon Brown.....	Logan
Arthur Brotherton Burrell.....	East Cleveland
Robert James Campbell.....	Cortland
Edwin Ray Gordin.....	Springfield
John Thurman Hively.....	Columbus
Myron Clinton Kurtz.....	Bucyrus
James Colver Kyle, B.S. (Cedarville College).....	Cedarville
Austin Otis Lemasters.....	Ravenna
George Lewis.....	Columbus
Herbert Dean McClelland.....	Utica
Adonis A. Mathewson.....	Maumee
Floyd James Ruble.....	Taylorville
Norman Hughes Shilliday.....	Ravenna
Dale Malcolm Stoltz.....	Gettysburg
Lucile Teeter, A.B. (Ashland College).....	Ashland
James Dumaresq Ward.....	Columbus
James Elias Webster.....	Norwich

(Twenty-seven candidates)

BACHELOR OF SCIENCE IN HOME ECONOMICS

Blanche Kathryn Coyne.....	Milton, Ind.
Rama Mae Edelen.....	Parkersburg, W. Va.
Eva Esther Obrist.....	Portsmouth
Kathryn Rebekah Sherer.....	Galion
Charlotte Dun Shoemaker.....	Columbus
Hazel Echo Teeling.....	Millersburg
Clara Gertrude Weishaupt.....	Lynchburg

(Seven candidates)

THE OHIO STATE UNIVERSITY

COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Dean: WILLIAM EDWARDS HENDERSON

BACHELOR OF ARTS

*Josephine Allegra Blake.....	Columbus
John George Broady (with high distinction).....	Plains, Kansas
Evangeline Cummings.....	Painesville
Harlan Oliver Davis.....	Cleveland
Anita Morton Fitch.....	Huntington, W. Va.
Doris Ankeney Flynn.....	Xenia
Walter William Gwinn.....	Columbus
Elizabeth Helen Harley.....	Columbus
Garrett McClellan Hartley.....	Quaker City
Margaret Ann Innis.....	Columbus
William Hicks Jeffers (with distinction).....	Columbus
Alice Winnifred Martin.....	Columbus
Gertrude Henrietta Marzetti.....	Columbus
Isador Alexander Mintz (with distinction).....	Cleveland
Sampson Pond (As of the Class of 1923).....	Hupeh, China
Laurella Wittich Sanders.....	Ashtabula
Edna Spatz (with distinction).....	Columbus
Lester Lyman Strong.....	Cleveland
Cheng Mo Sun (with distinction).....	Peking, China
Mary Elizabeth Walker.....	Columbus
George Merritt Washington.....	Columbus

(Twenty-one candidates)

*Two degrees

COLLEGE OF COMMERCE AND JOURNALISM

Dean: JAMES E. HAGERTY

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Wade Alexander Belden.....	Akron
Russell Roy Brewer.....	Columbus
Harold Hiatt Bryan.....	Wilmington
Cullen Parmalee Calaway.....	Ashtabula
Ralph Howard Clinger.....	Columbus
Constantine Farcasin (As of the Class of 1923).....	Cleveland
Paul Albert Green.....	Columbus
George Andrews Hart.....	Toledo
Gordon C. Hughes.....	Columbus
Judson Gordon Huston.....	Sunbury
Yung Kao Liao.....	Shang-Li Shi, China
Kenneth Parlette Moore.....	Troy
Roland Robert Moore.....	Columbus
William Russell Sammet.....	Versailles
Donald Henry Schneemilch.....	Columbus
George Woodward Schug.....	Decatur, Ind.
Edwin Nathaniel Strand.....	Cleveland
Eldon Weaver Studer.....	Cincinnati
William Howard Wallace.....	Columbus
William Winfield Wilson.....	Sidney

(Twenty candidates)

BACHELOR OF SCIENCE IN JOURNALISM

Ernest Mannes Margulies.....	Wadsworth
Austin Warren Welch.....	Columbus

(Two candidates)

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COLLEGE OF EDUCATION Dean: GEORGE FREDERICK ARPS

BACHELOR OF SCIENCE IN EDUCATION

Ray Brown Ankenbrand.....	Marietta
*Josephine Allegra Blake.....	Columbus
Helen Lucille Childs.....	Columbus
Hiram Theresa Folkman.....	Cleveland
Haidee Coral Gross.....	West Unity
Virginia Kaufman.....	Columbus
Bertha Louise Marmet.....	Columbus
Maxine Helen Matthews.....	Columbus
Alice Cary Offerman.....	Pemberville
Dorothy Mae Smith.....	Columbus
Daisy Marie Stackhouse.....	Kensington
Lillian Estella Stumph.....	Columbus
Rodney Johnson Warner.....	Woodstock
Helen Adele Witherspoon.....	Columbus
(Fourteen candidates)	

*Two degrees

COLLEGE OF ENGINEERING Dean: EMBURY A. HITCHCOCK

BACHELOR OF CERAMIC ENGINEERING

Arthur Burkhart DeVol.....	Zanesville
(One candidate)	

BACHELOR OF CHEMICAL ENGINEERING

William Henry Whirl.....	Lima
(One candidate)	

BACHELOR OF CIVIL ENGINEERING

Frank Edward Greene.....	Rochester, Minn.
Charles Stewart Roach.....	Athens
John Walter Wilson.....	Nelsonville
(Three candidates)	

BACHELOR OF ENGINEERING

Samuel Holliday Ruggles.....	Columbus
(One candidate)	

BACHELOR OF MECHANICAL ENGINEERING

Harold Glick Walters.....	Columbus
(One candidate)	

BACHELOR OF METALLURGICAL ENGINEERING

George Michael Bierly.....	Columbus
(One candidate)	

BACHELOR OF ENGINEERING IN MINING

Harold Dewitt Decker.....	Columbus
Robert Carnes Hickman.....	Nelsonville
(Two candidates)	

BACHELOR OF SCIENCE IN APPLIED OPTICS

Roy Charles Gygli.....	Madison
(One candidate)	

THE OHIO STATE UNIVERSITY

COLLEGE OF LAW

Dean: JOHN JAY ADAMS

BACHELOR OF ARTS

Donald Jacob Hoskins, B.Sc. in Bus. Admin.....	Columbus
Kenneth Wilson Kerr.....	Martins Ferry
William Horace Rose.....	Lorain
(Three candidates)	

COLLEGE OF PHARMACY

Dean: CLAIR ALBERT DYE

CERTIFICATE OF PHARMACEUTICAL CHEMIST

Isadore Baum.....	Cleveland
Emery Alfred Braun.....	Cleveland
Benjamin Cohen.....	Cleveland
Joseph Elwood Cowden.....	Dayton
Leonard Garfield Davis.....	Youngstown
Winfield Scott Essex.....	New Straitsville
Alexander Gelb.....	Cleveland
Homer Darold Gleadell.....	Leesburg
Samuel Albert Levin.....	Cleveland
William Nittskoff.....	Cleveland
Max Reisner.....	Cleveland
John Russo.....	Cleveland
Orphus Guy Ulry.....	Columbus
Joseph Weintraub.....	Cleveland
(Fourteen candidates)	

SUMMARY OF DEGREES AND CERTIFICATES

Graduate School.....	16
College of Agriculture.....	29
Applied Optics.....	1
College of Arts, Philosophy, and Science.....	21
College of Commerce and Journalism.....	22
College of Education.....	14
College of Engineering.....	10
College of Law.....	3
College of Pharmacy (Certificates).....	14
	<hr/>
	130
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Total degrees and certificates conferred on women.....	32
Total degrees and certificates conferred on men.....	98
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	130
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Candidates for degrees and certificates.....	129
Candidates receiving two degrees.....	1
Total degrees and certificates conferred.....	130

GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

SPRING CONVOCATION—1924

DOCTOR OF PHILOSOPHY

Sherman Weaver Bilsing, B.S. (Otterbein College), B.A., M.A.....	Crestline
Homer Leslie Cupples, B.Ch.E., M.Sc.....	Massillon
Warner Ensign Gettys, A.B. (Hiram College), M.A.....	Hiram
Robert James Havighurst, B.A. (Ohio Wesleyan University), M.A.....	Springfield, Ill.
John Dorman McBurney, S.B. (Muskingum College), M.Sc.....	Cambridge

Theodore Clinton McIlvaine, B.S., M.S. (Pennsylvania State College).....	Morgantown, W. Va.
Oliver Leslie Reiser, B.A., M.A.....	Columbus
Edna Rickey, A.B., B.S. in Edu. (Ohio University), M.A.....	Columbus
Waid Wright Tuttle, B.A. (Huntington College), M.A. (University of South Dakota)....	Bremen
(Nine candidates)	

MASTER OF ARTS

Ralph Benjamin Alspaugh, B.A.....	Amanda
William Ward Ankenbrand, A.B. (Marietta College).....	Columbus
Leonard Barnett, B.S. in Edu. (Ohio University).....	Vincent
Margaret Mary Barnett, B.A. (Muskingum College).....	New Concord
Helen Celia Barr, B.Sc. in Edu.....	Columbus
Faye Marie Brooks, B.A.....	Columbus
William French Bruce, B.Sc. in Agr.....	Delta
George Leonard Bush, B.Sc. in Edu.....	Bidwell
Clair Henry Calhoun, A.B. (Ohio University).....	Roseville
Bertha D. Charles, A.B. (Otterbein College).....	Westerville
Albert Mitchell Clifford, B.A. (Ohio Wesleyan University).....	Wellington
Robert Emmett Coady, B.A.....	Columbus
Helen Vivian Corbett, B.A. (Defiance College).....	Paulding
Clarence Wayne Dancer, A.B. (Toledo University).....	Toledo
Eugene Mund, B.A.....	West Alexandria
Ralph Lawrence Dewey, B.A.....	Solon
Herbert Joseph Edwards, B.A.....	Columbus
Harold Miller Eswine, B.Sc. in Bus. Adm.....	Pataskala
Jessica Foster, Ph.B. (University of Chicago).....	Chicago, Ill.
George Byers Garden, B.A. (Ohio Wesleyan University).....	Delaware
Irene Mildred Gibson, A.B. (Cornell University).....	Holley, N. Y.
Carson Lieuellen Horton, Ph.B. (University of Denver).....	Summerfield
Anne Griffith Jenkins, B.A. (Ohio University).....	New Lexington
Lura Marion Jewell, A.B. (University of Illinois).....	Irving, Kansas
Bessie Beatrice Keck, A.B. (Otterbein College).....	Westerville
Zoe Emily Leatherman, B.A. (Ohio Wesleyan University).....	Van Wert
Pao Ching Liu, A.B. (Peking Government Teachers' College).....	Pingsiang, China
Glenn Silas Long, B.Sc. in Edu.....	Lima
Margaret Adella McCann, B.Sc. (Muskingum College).....	Frazesburg
John Archibald McClister, B.A.....	Akron
Robert Daniel McGinnis, A.B. (Ohio University).....	Zanesville
William Heston McPherson, A.B. (Harvard University).....	Columbus
David Franklin Miller, A.B. (Wittenberg College).....	Springfield
Dorothy Frances Porter, B.A., B.Sc. in Edu.....	Steuenville
Ying Chung Ren, A.B. (University of Nanking).....	Nanking, China
Ralph Hare Richards, B.Sc. in Bus. Adm.....	Sistersville, W. Va.
Edgar Christopher Roberts, B.Sc. in Edu.....	Columbus
Mary Eleanor Ross, B.A.....	Columbus
Viva Grace Ruse, Ph.B. (Wooster College).....	West Salem
Fred John Sales, B.Sc. in Edu. (Muskingum College).....	Coshocton
Raymond Eugene Schaad, B.S. (Denison University).....	Millersport
Noble Crawford Shilt, A.B. (Ohio University).....	Verona
Grace Hill Staacke, A.B. (Otterbein College).....	Columbus
Charles Gideon Stewart, B.Sc. in Jour.....	Norwalk
Emma Elizabeth Stuckey, A.B. (Heidelberg University).....	Prospect
Hui Hwa Sung, B.A. (Ohio Wesleyan University).....	Hinghwa, China
Lloyd Nicoli Yepsen, A.B. (Carthage College).....	Princeton, Ill.
Harold Leland Yochum, A.B. (Capital University).....	Postoria
Elden Russell Young, LL.B.....	Bremen
(Forty-nine candidates)	

MASTER OF SCIENCE

John Grover Albright, A.B. (Ohio University).....	Columbus
Frederick Grover Charles, B.Sc. in Agr.....	Columbus
John Wilbur Dorst, A.B. (Wittenberg College).....	Springfield
Rollin Ray Durant, B.A.....	Columbus
Ricardo Dussan, B.S. (Denison University).....	Colombia, S. A.

Homer Morgan Faust, B.M.E.....	Youngstown
John Mino Flikkema, B.A. (Hope College).....	Morrison, Ill.
Fred Twichell Heath, B.Sc. in Cer. E. (University of Washington).....	Tacoma, Wash.
Frank Montgomery Hull, B.S. (Mississippi Agricultural and Mechanical College), Memphis, Tenn.	
Howard Wilfred Johnson, B.A.....	Columbus
S. Guy Jones, B.S. (Denison University).....	Redlands, Cal.
George Melvin Karns, B.S. (Mount Union College).....	Carrollton
Ivan Ernest Massar, B.S. in Edu. (Ohio University).....	Sidney
Paul Herman Mautz, B.Sc. in Agr.....	Marion
Francis Leo Meara, B.E.E.....	Columbus
Alden Earl Noble, B.A. (Ohio Wesleyan University).....	Seoul, Korea
James Gordon Phillips, B.A.....	Middletown
Warren Poppino Spencer, B.A. (Wooster College).....	Wooster
Siong Ceh Sung, B.A. (Ohio Wesleyan University).....	Yellow Stone, China
Lloyd Clayton Swallen, B.A. (Ohio Wesleyan University).....	Alliance

(Twenty candidates)

CANDIDATES FOR TWO DEGREES

Owen King Blythe.....	Franklin
Bachelor of Arts	
Bachelor of Laws	
Mary Catherine Cassidy.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
George Allen Griffin.....	Cleveland
Bachelor of Electrical Engineering	
Bachelor of Mechanical Engineering	
Mary Helen McDowell.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Elizabeth Easter Martin.....	Columbus
Bachelor of Architecture	
Bachelor of Architectural Engineering	
Flora Eva Olnhausen.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Janice Eleanor Paden.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Margaret Agnes Redfield.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Thomas Dominicus Santurello.....	Columbus
Bachelor of Science	
Doctor of Medicine	
Gertrude Marie Schlose.....	Dayton
Bachelor of Arts	
Bachelor of Science in Education	
Margaret Blanche Schneider.....	Washington C. H.
Bachelor of Arts	
Bachelor of Science in Education	
Walter Erwin Smith.....	Columbus
Bachelor of Science	
Doctor of Medicine	
Elizabeth Florence Yager.....	Chillicothe
Bachelor of Arts	
Bachelor of Science in Education	

(Thirteen candidates)

COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

BACHELOR OF SCIENCE IN AGRICULTURE

Horton Alger.....	Mantua
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Willis Sherman Barger.....	Poland
Wilber Edward Beane.....	Arcanum
Melvin Frank Beck.....	Columbus
Roscoe C. Behymer.....	Amelia
Hugh Eldon Brubaker.....	West Alexandria
Arthur Lewis Burras.....	North Fairfield
Donald Fleshner Christy.....	Cincinnati
Arthur Valentine Clapp.....	Kent
Jean Constable.....	Columbus
Herbert Horton Coons.....	Richwood
Charles Deward Curry.....	Nova
Ben Herbert Davis.....	Perrysburg
Robert Curran Douglas.....	East Cleveland
Charles Dillon Dunlap.....	Vanatta
Leonard James Faulkner.....	Columbus
John Ambrose Finan.....	Nashport
Harold Dean Fleming.....	Vincent
William Howard Forsyth.....	Malta
Donald Warden Frink.....	Perry
Milton Ostus Gardner.....	Proctorville
Morris Fuller Hartman.....	Batavia
Paul Clouris Hartup, B.A.....	Lore City
George Louis Hasler.....	Hamilton
Arthur Harrison Hathaway.....	Scipio Siding
George Allen Hayes.....	Lockbourne
Herman Anthony Higgins.....	Dayton
George Martin Hoffman.....	Cleveland
Nelson Twining Howe.....	Birmingham
Clair Talmadge Hummon.....	Leipsic
Chester Hutchison.....	Ashville
Frank Irons.....	Lebanon
Thomas Hampton Johnson.....	New Vienna
Louis Byron Kaiser.....	Athalia
John Russell Kimber.....	Wooster
Amy May Knauber.....	Cincinnati
Clarence Snyder Krauss.....	Findlay
Alma Laura Kuhlman.....	Toledo
Robert William Lang.....	Woodsfield
Joseph Derea Leavengood.....	Fresno
Rolfe Lee.....	Gallipolis
Walter Cletus Leyda.....	Minerva
Orville David Long.....	St. Paris
Hunter Gould Minor.....	Charleston, W. Va.
Robert Morris Montgomery.....	Youngstown
Mahlon Pancoast Nichols.....	Leetonia
John Henry Elmer Nocka.....	Cincinnati
Marjorie Norris.....	Columbus
Albert Joseph Paulus.....	New Milford
Matthew Edwin Penne.....	Columbus
Harold Hunter Pickering.....	Lancaster
John Lester Powell.....	McCutchenville
Merritt Powell.....	McCutchenville
Stuart Croft Powers.....	Ashley
Thomas Drees Price.....	Caxias, Brazil
Sempad Shahnazarian.....	Armenia
John Creviston Skidmore.....	Union City, Ind.
Bob Bill Smith.....	Upper Sandusky
Phillip Burr Smith.....	Springfield
Harry Dwight Steel.....	East Sparta
Sigmund Francis Stein.....	Rocky River
Walter Harold Studor.....	Adamsville
Homer Scott Swingle.....	Columbus
Forest Emerson Teeter.....	Tippecanoe City

Edgar Landon Thomas.....	Rogers
Roger Mercer Thomas.....	New Waterford
Sylvan Morris Toner.....	Shelbyville, Ind.
James Otha Tressler.....	Bryan
Melville Curtis Trucksis.....	Troy
Horace Vinton Vandever.....	Troy
Howard Roger Waugh.....	Bowling Green
Chester Alphas Weaver.....	Marysville
Star Henry Windsor.....	Marietta
George Logan Woodburn.....	Urbana
Robert Logan Woodburn.....	Urbana
Cyrus Butler Wright.....	Pierpont
Walter Wayne Wyckoff.....	Oxford
Erwin Kirk Young.....	Zanesville

(Seventy-eight candidates)

BACHELOR OF SCIENCE IN HOME ECONOMICS

Florence Rose Beck.....	Columbus
Foreest Vivian Boyer.....	Basil
Margaret Brand.....	Dayton
Ruth Margaret Bretz.....	Columbus
Hazel Elizabeth Brewster.....	Perry
Helen Catherine Clabaugh.....	Columbus
Alice Bradford Colton.....	Columbus
Edna Cramer.....	Columbus
Charlotte Maude Darragh.....	Columbus
Daisy Davis.....	Columbus
Helen Louise Diehl.....	Defiance
Lois M. Doolittle.....	Mansfield
Mary Cornelia Evans.....	Columbus
Ella Magdalene Everett.....	Huron
Lola Violet Forbes.....	Harris, Iowa
Deborah George.....	Newcomerstown
Marian Pearl George.....	Jamestown
Rossie Beatrice Greer.....	Mt. Vernon
Martha Elizabeth Henderson.....	Columbus
Ruth Marie Hildebrand.....	Fredericktown
Alice Sherfy Houston.....	Orchard Lake, Mich.
Doris May Humphreys.....	Columbus
Alma Virginia Johnston.....	Columbus
Helen Winifred Kennedy.....	London
Grace Louella Koch.....	Wheelerburg
Pauline Evelyn Kreager.....	Brownsville
Norma Emma Leibbrand.....	Columbus
Lois Gretchen Lintner.....	Columbus
Ruth Kenyon McKinnie.....	Delaware
Gladys Elizabeth Madden.....	Grove City
Clara Allen Marshall.....	Dublin
Ida Fay Massie.....	Haverhill
Frances Josephine Mathias.....	Logan
Doris Mae Merrill.....	Summit Station
Mary Margaret Miars.....	Spring Valley
Margaret Elizabeth Osborne.....	Columbus
Mary Louise Reinhard.....	Richmond, Ind.
Helen Taylor Renick.....	Columbus
Ara Carr Ross.....	Felicity
Dorothy Gayle Ryder.....	Columbus
Eleanor Miriam Schulz.....	Columbus
Bernice Louise Shaner.....	Newark
Medrith Ann Sheppard.....	Mt. Sterling
Mary Lucille Shilling.....	Columbus
Anita Marion Shook.....	Columbus
Verna Bernice Smith.....	Washington, D. C.
Dorothy Elizabeth South.....	Columbus

Martha Jean Sullivan.....	Toledo
Helen Westervelt.....	Columbus
Coell Jividen Wetherholt.....	Racine
Lois Elizabeth Whitaker.....	Dublin
Helen Marie Yerger.....	Boyertown, Pa.
Ala Leota Zimmerman.....	Jeffersonville

(Fifty-three candidates)

COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Acting Dean: JOHN ADAMS BOWNOCKER

BACHELOR OF ARTS

Florence Elizabeth Baird.....	Bowling Green
Frank Prophet Bakes.....	Mt. Gilead
Crystelle Adah Barnard.....	Roachdale, Ind.
Eva Elizabeth Barnhart.....	Canal Winchester
Martha Cynthia Bauman (with distinction).....	Columbus
Edna Norma Baumann.....	Mannington, W. Va.
Mildred Antoinette Beard.....	Columbus
La Vantia White Bedford.....	New London
Lucile Beecher (with distinction).....	Toledo
Hilda Maurine Bell (with distinction).....	Grand Rapids, Mich.
Martha Frances Bell (with distinction).....	London
Mary Squier Bethel.....	Zanesville
John Charlton Bigony.....	Columbus
Eleanor Olive Black.....	Columbus
Helen Augusta Black.....	Ashland
Melvin Hiel Black (with distinction).....	Mt. Vernon
Dorothy Louise Blue.....	Columbus
*Owen King Blythe (As of the Class of 1922).....	Franklin
Hendrik Wade Bode (with high distinction).....	Columbus
Martha Bonnett.....	Shreve
Irma Louise Braun.....	Columbus
Ruth Adelaide Brown.....	Cleveland
Lina Buckley.....	Harrison
Karl Frederick Buehner.....	Miamisburg
Ralph LeRoy Burger.....	Galion
Josephine Bye (with high distinction).....	Columbus
Helen Elaine Campbell.....	Toledo
Charles Edwin Carlton (with high distinction).....	Columbus
Harriet Elizabeth Carran.....	Lakewood
Earl Philip Carter, Jr. (with distinction).....	Greenfield
Vera Tucker Cassell (with distinction).....	Dayton
*Mary Catherine Cassidy.....	Columbus
Rawley Ernest Chambers.....	Bays
Edna Maria Clark (with high distinction).....	Columbus
William Lawson Clark.....	Marion
Frederick McArthur Clemans, Jr.....	Mechanicsburg
Raymond Lynne Collier (with high distinction).....	Lakewood
Sadie Corinna Compber.....	Piedmont
Alice Hume Cooke.....	Greenville
Marian Margaret Crawford.....	Toledo
Earl Mack Criger.....	Carey
James Walter Cummins.....	Worthington
Laura Jane DeLong.....	Columbus
Florence Grey Denton.....	Columbus
Anna Mary Dice.....	Columbus
Alma Gillespye Dickey.....	Columbus
Helen Ruth Doughton.....	Columbus
Ralph Emerson Dunford (with distinction).....	Amanda
Jesse Cameron Dungan.....	Troy

* Two Degrees

Emerson Llewellyn Dunn.....	Worthington
Glen Duttweiler (with distinction).....	Findlay
Robert Garner Ewing.....	Jackson
Frances McCrea Foott.....	Columbus
Wellington Guild Fordyce.....	Columbus
Hazel Rice Forsythe.....	Duncan Falls
Glenn Leslie Fortune.....	Lynchland
Jennie Mack Fox.....	Columbus
Carl Maynard Frasure (with distinction).....	Stoutsville
Rachel Freedman.....	Bellaire
Frank Alfred Fritz.....	Barberton
Lyman Armentrout Garber.....	Mt. Vernon
Adelaide Rowland Gardner.....	Columbus
Margaret Mary Gillingham.....	Columbus
Ruth Helen Graham.....	Columbus
Lloyd Converse Groves.....	Caldwell
Miriam Rose Gumble.....	Columbus
Elder Francis Hambsh.....	Columbus
Howard Leeman Hamilton.....	Columbus
Virgil Leland Hansley.....	Sugar Grove
Warren Gamaliel Harding II.....	Worthington
Helen Elizabeth Hawkins.....	Painesville
Esther Isabel Head.....	Columbus
LeGrand Herman Headington.....	West Mansfield
Maurice Conley Hendershott.....	Columbus
LeRoy Allen Hodges.....	Milford
Dorothy Alice Houghton.....	Marion
Grace Hull.....	Columbus
Edgar Sherman Hunter.....	Jackson
Anna May Hussey.....	Youngstown
Marjorie S. Ingle.....	Bainbridge
Harry Palmer Jeffrey.....	Dayton
Katherine Virginia Johnson.....	Columbus
Maurice George Karrel.....	Cleveland
Edward Boepple Kehres.....	Warrensville
Eudora Ruth Keys (with distinction).....	Steubenville
Paul Leland Kirk (with high distinction).....	McConnellsburg, Pa.
Harold Philip Klug (with high distinction).....	Zanesville
Myron Stanley Korach.....	Cleveland
Anna Ione Kosmetos.....	Canton
Lee Hamilton Kramer.....	Columbus
Florence Elizabeth Kress.....	Cleveland
Myra Wilhelmina Kuenzel (with high distinction).....	New Bremen
Katherine Anita Landacre.....	Columbus
Avrom Landy (with high distinction).....	Cleveland
Hugh Clark Laughlin (with distinction).....	New York City, N. Y.
Alice Lucile Lawrence.....	Columbus
Martin Leatherman.....	Lodi
Ruth Violette Leffler.....	Marion
Ruth Mildred Lemley (with distinction).....	Delaware
Dorothy Maude Lockhart.....	Columbus
Irma Henriette Loeb (with distinction).....	Zanesville
Bertha Isabel Lonie.....	La Grange, Ill.
Ralph LaMar Lonius.....	Galion
Ethel Florence Lotze.....	Girard
Elmer James McCue (with high distinction).....	Columbus
*Mary Helen McDowell.....	Columbus
Manford Lemuel McKercher.....	Columbus Grove
Eather Springer Mally.....	Columbus
Edgar Allen Marquand.....	Conesville
Russell V. Maxwell.....	Edon

* Two Degrees

Hugh Howard Miley.....	Fayette
Lloyd Devere Miller.....	Bryan
Edna Clare Millonig (with high distinction).....	Dayton
William Guy Murphy.....	Fostoria
Jane Louise Newton.....	Columbus
Kathryne Nancy Nowell.....	Columbus
*Flora Eva Olnhausen.....	Columbus
Arthur Lloyd Osborn.....	Waldo
Norman Goodrich Ovens.....	Girard
*Janice Eleanor Padan.....	Columbus
Corliss Lloyd Parry (with distinction).....	Jackson
Mildred Alice Pasch.....	Toledo
Edna Ora May Pate.....	Columbus
Ruth Lucile Patton.....	Portsmouth
Virginia Harrison Patton.....	Los Angeles, Cal.
Harold John Pennisten.....	Columbus
Arline Virginia Phillips.....	Chillicothe
Pearl Winifred Poe.....	Massillon
Ida Myers Polan.....	Charleston, W. Va.
John Albert Pollard.....	Toledo
Mabel Martine Potter.....	New Lexington
William Hughes Price.....	Cleveland
*Margaret Agnes Redfield.....	Columbus
William Thomas Reed.....	Columbus
Aileen Reiner.....	Canal Winchester
Elizabeth Gibboney Rhodes.....	Welch, W. Va.
Mary Elizabeth Richards (with distinction).....	Columbus
Josephine Richardson.....	Columbus
Catherine Jane Roberts.....	Columbus
Samuel Johann Roessler.....	Columbus
Estella Faye Rogers (with distinction).....	Columbus
Juliet Hollister Rogers (with distinction).....	Columbus
Herman Frederick Roth.....	Norwalk
Lucille Martin Ruetenik.....	Cleveland
John Murgrave Russell.....	Youngstown
Olive Ruth Sands.....	Columbus
Louis Thokey Schaefer.....	Galion
Harold Kent Schellenger (with distinction).....	Jackson
*Gertrude Marie Schlose.....	Dayton
*Margaret Blanche Schneider.....	Washington C. H.
Robert Martin Schoenhals.....	Dayton
Melbourne Schwartz.....	Cleveland
Edward Jay Schweid.....	Cleveland
Gertrude Nanette Seifer.....	Dayton
John Max Shepherst.....	East Toledo
Ober Carter Slotterbeck.....	Bloomdale
Adrienne Lunette Smith.....	Columbus
Frances Marian Smith (with high distinction).....	Columbus
Ruth Garland Smith.....	Columbus
Kenneth Ludwig Smoke (with distinction).....	Columbus
Lyman Spung.....	Columbus
Louella Fay St. Clair.....	Columbus
Eugene Dailey Straw.....	Ohio City
Dorothy Elizabeth Sullivan.....	Columbus
Frances Elizabeth Summy (with high distinction).....	Columbus
Stafford Russell Taylor.....	Columbus
Helen Mae Thoma.....	Norwalk
James Alfred Thompson.....	Brink Haven
Lucile Tidrick.....	Columbus
Janice Eleanor Todd.....	Canton
Margaret Elizabeth Tubbs.....	Bryan

Elizabeth Wadsworth.....	Washington, D. C.
Carl Hinckley Waite.....	Medina
Ting-Shu Hang.....	Shantung, China
Ruth Bradwill Warren.....	Lakewood
Josephine Waters (with high distinction).....	Lakeside
Charlotte Elizabeth Wean.....	Toledo
George Edward Weigand.....	Warren
Carolyn McFarland Wells.....	Columbus
Marline Westerfield.....	Greenville
Wilbur Wallace White.....	Cedarville
Marshall Erwin Wilcox.....	Paulding
Helene Gertrude Williams.....	Girard
Horace Starr Williams.....	Columbus
Howard DeWitt Willits.....	Cardington
Melville Lawrence Wolfrom (with high distinction).....	Bellevue
'Elizabeth Florence Yager.....	Chillicothe
Lillian Mae Zinn.....	Columbus

(One hundred and eighty-eight candidates)

BACHELOR OF SCIENCE

Donald Frederick Bowers.....	Columbus
Harry Gordon Harris.....	Fairpoint
Allen Phillip Heintz.....	Columbus
Reed Llewellyn Kennedy.....	Berkey
Robert W. Kropp.....	Columbus
Charlotte Elsbeth Kusta.....	Cleveland
William Kutler.....	Cleveland
Eugene H. Merrell.....	Toronto
Edward Lincoln Miller.....	Columbus
Edward Winfield Miskall.....	East Liverpool
Garnett Eglon Neff.....	Portsmouth
Delmar Reginald Palmer.....	Erie, Pa.
*Thomas Dominicus Santurello.....	Columbus
McKinley Alfred Schlott.....	Louisville
*Walter Erwin Smith (As of the Class of 1922).....	Columbus
Arnold Frederick Sydow.....	Cleveland
George Dewitt Woodward.....	Dayton

(Seventeen candidates)

* Two Degrees

COLLEGE OF COMMERCE AND JOURNALISM

Dean: JAMES E. HAGERTY

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Carl Benjamin Addams.....	East Cleveland
Edward Francis Baker.....	Columbus
Frederick Leo Baumgardner.....	Columbus
Abraham Berman.....	Lorain
Harold Amasa Bishop.....	Toledo
Henry Morton Bodfish.....	Columbus
Charles Herbert Breininger.....	Columbus
Rufus Kelly Brown, Jr.....	McConnelsville
Valdona Monford Brown.....	Columbus
Malvern Crisp Buchanan.....	Norwood Station, Pa.
Colin Crum Campbell.....	Bainbridge
James Bertram Cherry.....	Columbus
Man-Yang Chiu.....	Nankin, China
Frank Gage Connell.....	Columbus
Clesson Ellsworth Cronin.....	Barnesville
Earl Castle Curtis.....	Ft. Recovery
George A. Davis.....	Columbus

Robert Jesse Dicken.....	Fostoria
Nelson Henderson Dunlap.....	Columbus
Donald Calvert Durrant.....	Columbus
Emery Mather Durstine.....	Cleveland
Albert Eichorn.....	Cleveland
Earl Henry Elberfeld.....	Pomeroy
Walter English, Jr.....	Columbus
Maurice Andrew Faherty.....	Elwood, Ind.
Robert Ellsworth Feagles.....	Tiffin
Mathew Carl Finkelstein.....	Columbus
Chauncey Blair Forward.....	Urbana
Allen Luke Foster.....	Ashland, Ky.
John Gard, Jr.....	Lorain
Harold L. Gardner.....	Cleveland Heights
Dorothy Edna Gibson.....	Columbus
Howard Lewis Glaser.....	Oak Harbor
Walter Melbourne Goodman.....	Cleveland
Harry Elmer Goshen.....	Columbus
Frank Nelson Gray.....	McConnelsville
George Delbert Gray.....	New Concord
Arthur Frederick Greene.....	Youngstown
Clyde McFarland Griffith.....	Martins Ferry
Walter Baker Hall.....	Columbus
Lowell Kingsley Hanson.....	Youngstown
Frank Wendell Harper.....	Columbus
Albert George Harter.....	Akron
James Dowler Hartshorne.....	Cleveland
Grace Marguerite Heinlen.....	Bucyrus
Robert Howard Henretty.....	Avery
Robert Turner Herr.....	Dayton
Sydney Alan Hoagland.....	Lima
John Frederick Hudson.....	Columbus
Jamie Thompson Irvine.....	Zanesville
Robert Stamm Jones.....	Columbus
Herman Katz.....	Columbus
Charles Elfred Kennedy.....	Marysville
James William Kensett.....	Brilliant
Ray Frederick Knipfer.....	Columbus
Donald Charles Kyle.....	Columbus
William Robert Lamb.....	Columbus
Merlyn Keith Ledyard.....	Bucyrus
Charles Thomas Lisko.....	Salem
Josephine Agnes Lowrie.....	Columbus
Henry Hammond Metters.....	Columbus
Irvin S. Morris.....	Akron
Herbert William Neunherz.....	Columbus
Edmund Bernard O'Leary.....	Ashtabula Harbor
Gerald Stanley Palmer.....	Defiance
Perry Louis Parr.....	Colorado Springs, Colo.
Charles Sidney Pearce.....	Steubenville
Dale Felton Powers.....	Ashley
Charles Henry Priode.....	Pomeroy
John William Purdom.....	Xenia
Howard George Reifinger.....	Mineral Ridge
Morris Deitsch Reynolds.....	Spencerville
Robert Standish Rogers.....	Toledo
Joseph R. Rosensweet.....	Dayton
Robert Ludwig Seith.....	Galion
George Carey Sellers, Jr.....	Wellston
Harry Curtis Slagle.....	Lectonia
John Frederick Smith.....	Columbus
Victor LeRoy Snyder.....	Findlay
Harold Leon Stahl.....	Columbus

Morris Jehu Stanley.....	Damascus
Merton Roscoe Steele.....	Shelby-
Clifford Albert Steinmeyer.....	Toledo
Alvin John Sterman.....	Cincinnati
Howard Bush Teter.....	Cleveland
Fred Warren Turner.....	Bremen
Mildred Winifred Underwood.....	Toledo
Lloyd Edward Vogelgesang.....	Canton
Mary Ellen Warren.....	Groveport
Tse-Kong Wong.....	Shanghai, China
William Oldfield Yohe.....	Canton
Robert Kemmerle Zimmer.....	Columbus
Ben A. Zucherman.....	Columbus

(Ninety-three candidates)

BACHELOR OF SCIENCE IN JOURNALISM

Carroll Edward Bartlett.....	Painesville
Gustus Karl Bowman.....	East Cleveland
Ned Cadle Brooks.....	Warren
Eva Howell Clark.....	Mt. Vernon
Samuel Steele Conaway.....	Steubenville
Edith Thorniley Cummins.....	Columbus
Albert Voorhees Dix.....	Wooster
Isadore M. Hyman.....	Xenia
Barney Dave Iola.....	Rochester, N. Y.
Jean Darke James.....	Columbus
William Herbert Kight.....	Columbus
Walter Stewart Mansell.....	Columbus
Earl Dwight Mittendorf.....	Ironton
Henry Lee Moon, A.B. (Howard University).....	Cleveland
William Herman Mylander.....	Oak Harbor
Lucille Burriss Pummell.....	Huntington, W. Va.
Marian Bush Snyder.....	Athens
Chester Frederick Trautwein.....	New Bremen
John Lawrence Tresnicka.....	Bedford
Richard Rinard Waltz.....	Delta
Meta Margareta Wirthwein.....	Columbus
Harry Hall Workman.....	Huntington, W. Va.

(Twenty-two candidates)

BACHELOR OF SCIENCE IN SOCIAL ADMINISTRATION

Mildred Johnston Cleaveland.....	Columbus
Cecelia Lora Coons.....	Columbus
Mildred Elizabeth Osborn.....	Mechanicsburg
Faith Radebaugh.....	Columbus
Ethel Lillian Rowe.....	Columbus
Sadie Strosnider.....	Williamson, W. Va.
Almeda Ferne Sutherly.....	Columbus
Ruth Mildred Walker.....	Pittsburgh, Pa.
Thelma America Weese.....	Columbus
Lloyd Wilcox.....	Columbus

(Ten candidates)

COLLEGE OF DENTISTRY

Dean: HARRY M. SEMANS

DOCTOR OF DENTAL SURGERY

Frank Clyde Beck.....	Columbus
Stanford Paul Berry.....	Detroit, Mich.
David Biel.....	Cleveland
Chester Richard Brown.....	Warren
Carson Edward Cross.....	Columbus
Boynnton Davenport.....	Portsmouth
John William Dunson.....	Kenton

Russell Frederick Eberley.....	Martins Ferry
Charles Joseph Eickholt.....	Columbus
Robert Downing Fisher.....	Barnesville
Harry Gabelman.....	Cleveland
Adelbert Dalton Gill.....	Gibsonburg
Kenneth Gillette.....	Athens
William Lester Griffith.....	Worthington
Ernest Gordon Gump.....	Columbus
John Nicholas Hanson.....	Akron
Russell H. Haworth.....	Troy
Ralph Lawrence Hays.....	Wooster
Genevieve M. Highman.....	Columbus
Collin F. Kinsey.....	East Liverpool
Paul Clifford Kitchin, B.Sc. in For.....	Sycamore
Vernon Harry Knapp.....	Woodsfield
Frank Shisler Kottmeier.....	Ashland
Lawrence William Laughlin.....	Columbus
Paul Dunbar Lofton.....	Columbus
William Charles McMenamy.....	Jacksonville
Herbert Patrick Machan.....	Strasburg
Raymond Jacob Marts.....	Middletown
Frank Moffet Mitchell.....	Cambridge
John Frank Novatny.....	Cleveland
George Corbly Paffenbarger.....	McArthur
Henry Piatt.....	Columbus
Arthur Brown Rhodes.....	Columbus
Samuel Burkhart Richeson.....	Sidney
Eugene Moore Riel.....	Columbus
Royal Dewey Robeson.....	Danville
Frederic Jones Rohrbaugh.....	Columbus
Charles Arthur Ross.....	Wauseon
Roy Maywood Rossel.....	Columbus
Caroline Ethel Rothschild.....	Youngstown
Elmer James Schad.....	Wauseon
John Shaw Schnebly.....	Mt. Vernon
Frederick Elmer Schroder.....	Pemberville
Robert Errol Seiple.....	Bloomville
Clarence Wilbur Siddall, B.Sc. in Agr.....	Bellaire
Theodore Andrew Slaman.....	Lakewood
Walter Andrew Sweeney.....	Youngstown
Varian Aldrich Sweetnam.....	Toledo
Roger Alexander Tarr.....	Mt. Vernon
Robert James Thoman.....	Columbiana
Donald McKinley Thomas.....	Sandusky
Paul Edgar Thomas.....	Parkersburg, W. Va.
John Franklin Tschappat.....	Shadyside
John Harold Van Horn.....	Loudonville
Wesley Ashbury Vaughn.....	Lakewood
Thomas Corwin White, Jr.....	Barnesville
Stanley Otto Xanders.....	Springfield

(Fifty-seven candidates)

COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

BACHELOR OF SCIENCE IN EDUCATION

Margaret Helen Andrix.....	Columbus
Emily Gertrude Arrowsmith.....	Hicksville
Iona Baldwin.....	Cridersville
Anna Amanda Banyai.....	Cleveland
Cora Olive Bartlett.....	Columbus
Elton Oscar Bartlow.....	Columbus
Arthur Lyman Bascom.....	Cortland

Vesta Louisa Bateman.....	Zanesville
Helen Bates.....	Columbus
Mary Louise Bauer.....	Toledo
Louise Thelma Bell.....	Columbus
Elizabeth Cecelia Bodell.....	Columbus
Gladys Sunderland Bowen.....	Columbus
Janice Butin Bowen.....	Columbus
Mary Elizabeth Bratten.....	Columbus
Lillian Marie Brauch.....	Columbus
Virginia Clara Braun.....	Columbus
May Louise Brodt.....	Columbus
Melba Margaret Brophy.....	Columbus
Edythe Bumgardner.....	Toledo
Florence Hale Burington.....	Columbus
*Mary Catherine Cassidy.....	Columbus
Harriet Louise Chantler.....	Columbus
Helen Elliott Cherington.....	Columbus
Marie Sarah Cleveland.....	Urbana
Freda Shirley Cohen.....	Logan
Harriet Elizabeth Cohn.....	Columbus
Florence Kathryn Congdon.....	Columbus
Irma Juliette Curry.....	Columbus
Ferne Alford Davis.....	Columbus
Ada May DeWitt.....	Columbus
Ruth Emily Dill.....	Columbus
Florence Virginia Dyer.....	Galloway
Ada Elisabeth Eby.....	Farmersville
Mary Elizabeth Elliott.....	Columbus
Margery Eymon.....	Marion
Marjorie Elizabeth Ferree.....	Columbus
Mildred Eleanor Ferree.....	Columbus
Alice May Gelsanliter.....	Galion
Elizabeth Anna Gruber.....	Cleveland
Frank Keller Guthrie.....	Columbus
Ruth Elmina Harris.....	Columbus
Elva Ione Hartman.....	Wadsworth
Euphrasia Cathryn Haskins.....	Wakeman
Lauretta Annette Hayes.....	Columbus
Grace Louise Henderson.....	Toledo
Frances Catherine Henning.....	Stryker
Margaret Herrman.....	Roanoke, Va.
Ruth High.....	Columbus
Mabel Evelina Hogan.....	Columbus
Helen Ruth Humphreys.....	Kenton
Mabel Isabel Huttenlocker.....	Berlin Heights
Nellie Ferris Jennings.....	Delaware
Mary Bernice Johns.....	Columbus
Laura Luella Jones.....	Columbus
Martha Virginia Joyce.....	Columbus
Marion Ann Kane.....	Columbus
Ethel Katz.....	Columbus
Mary Thelma Kilgore.....	Columbus
Doris Elizabeth Kiner.....	Columbus
Kathryn Bernice Kiner.....	Columbus
Miriam Ruth Kotosky.....	El Paso, Texas
Ruth Anna Lanpher.....	Leetonia
Marion Louise Lilly.....	Columbus
Francis Fulton Little.....	Manchester
Isabel Virginia Long.....	Columbus
Ruth Passmore Lukens.....	Marion
Ruth Brown Lumley.....	Columbus

Beatrice Kathryn McBride.....	Columbus
Rose Anna McClain.....	Bellaire
Ruth Kathryn McDaniel.....	Columbus
*Mary Helen McDowell.....	Columbus
Mary Margaret McNamara.....	Delaware
Clara Isabelle Macbeth.....	Conneaut
Lillie Caroline Maier.....	Columbus
Irene Lucille Mason.....	Columbus
Kathryn Haynes Mathews.....	Columbus
Martha Spriggs Mathews.....	Columbus
Alma Mary Miller.....	Columbus
Helen Mitchell.....	Plain City
Mary Louise Moody.....	Mechanicsburg
Mary Frances Moore.....	Shelby
Lydia Francis Newell.....	Bellefontaine
Dorothy Standish Norris.....	Columbus
Mary Christine Oberdorfer.....	Lancaster
*Flora Eva Olnhausen.....	Columbus
Doris Margaret Olpp.....	Columbus
*Janice Eleanor Padan.....	Columbus
Mary Anna Paton.....	Ashland, Ky.
Beatrice Elizabeth Penman.....	Portsmouth
Lillian Elizabeth Pitz.....	Columbus
Dorothy Kathryn Postle.....	Columbus
Margaret Cartwright Poston.....	Columbus
Georgiana Juliet Preston.....	Columbus
Verna Mae Rains.....	Columbus
*Margaret Agnes Redfield.....	Columbus
Marjorie Ethel Reeves.....	Lakewood
Marguerite Bernice Reuter.....	Fort Recovery
Stella Mae Rogers.....	Columbus
Rose Rothschild.....	Youngstown
Ruth Madeline Salmans.....	Columbus
Lois Allen Sanborn.....	Columbus
August Matthew Schad.....	Benwood, W. Va.
*Gertrude Marie Schlose.....	Dayton
*Margaret Blanche Schneider.....	Washington C. H.
Martha Jane Searle.....	Columbus
Vernon Opal Shelhamer, B.A.....	Columbus
Elizabeth Silverman.....	Columbus
Kenneth Kyle Strock.....	Newton Falls
Pearl Beatrice Strom.....	Dayton
Ruth Ann Suydam.....	Columbus
Kathaleen Swope.....	Amanda
Olive Gwendolyn Tannehill, B.Sc. in Social Service.....	Columbus
Janet Robins Taylor.....	Columbus
Thelma Catherine Tyne.....	Columbus
Rachel Hughes Van Hook.....	Columbus
Fred Watts.....	Circleville
Dorothy Jane Wells.....	Columbus
Mary Lucille Wells.....	Columbus
Lucile Whitney.....	Cleveland
Lora Marguerite Wiest.....	Upper Sandusky
Burt Wilson Wilcox.....	Columbus
Catharine Melissa Williams.....	Marysville
Ruth Esther Wilson.....	Columbus
Charles Stewart Winter.....	Steubenville
Eleanor Elizabeth Wright.....	Medina
*Elizabeth Florence Yager.....	Chillicothe
Faye Harriet Yarrington.....	Columbus

* Two Degrees

Charlotte Lucille Zahrend.....	Leipsic
Priscilla Evelyn Ziskind.....	Columbus
(One hundred and thirty candidates)	

COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHECOCK

ELECTRICAL ENGINEER

George Washington Baughman, Jr., B.E.E.....	Gilboa
(One candidate)	

MECHANICAL ENGINEER

James Henry Platt, B.M.E.....	Washington, D. C.
Karl Willson Stinson, B.M.E.....	Columbus
(Two candidates)	

BACHELOR OF ARCHITECTURE

Harold Augustus Boster.....	Columbus
Isabel Beecher Chancellor.....	Columbus
Martin Patrick Coady.....	Columbus
Vernon Ralph McQuilkin.....	Cleveland
*Elizabeth Easter Martin.....	Columbus
Ruth Elizabeth Morris.....	Columbus
Wellington Green Nicola.....	Worthington
Thomas William Rayburn.....	Greenville
(Eight candidates)	

BACHELOR OF ARCHITECTURAL ENGINEERING

Gerald Richard Black.....	Mineral City
Raymond Dale Goller.....	Bryan
Louis Frank Karlsberger.....	Columbus
Homer Addison Lorentz.....	Columbus
*Elizabeth Easter Martin.....	Columbus
Charles Monroe Sharp.....	Columbus
Joseph Edgar Thomas, Jr.....	Marion
(Seven candidates)	

BACHELOR OF CERAMIC ENGINEERING

Albert Scholl Adcock.....	Logan
Walter McKinnie Hughes.....	Zanesville
Nelson McCoy Melick.....	Roseville
(Three candidates)	

BACHELOR OF CHEMICAL ENGINEERING

Carroll Maurice Allen.....	Van Wert
Raymond S. Carter.....	Cuyahoga Falls
Charles Cicero Clark.....	Columbus
Folsom Ewart Drummond.....	Hanging Rock
John Edward Fergus.....	Dubois town, Pa.
George Frank Friauf.....	Toledo
Charles Truman Harman.....	Indianapolis, Ind.
Glenn Rounds Hull.....	Elyria
Virgil Clarence Hutton.....	Lewisburg
Frank John Koehne.....	Dayton
Joseph Koffolt.....	Cleveland
Clifford Frank Landin.....	Lorain
Albert Routa.....	Cleveland
George William Ruhl.....	Hamilton
James Randall Wall.....	Dayton
Clifford Albert Weis.....	Elmore
(Sixteen candidates)	

BACHELOR OF CIVIL ENGINEERING

Reed Davis Achauer.....	Zanesville
Mark Scott Bailey.....	Leesburg

* Two Degrees

George Livingstone Baker.....	Springfield
Bruce Armor Barr.....	Youngstown
Bradford Vieth Bevier.....	Columbus
Maurice Von Bickel.....	Greenville
Joseph Chandler Bronson.....	Columbus
Harold Rexford Carle.....	Columbus
Charles Clarence Conklin.....	Plain City
Lester Liggett Dickson.....	Lowellville
Myron Allen Dysinger.....	Tiffin
Harry William Fraas.....	Dayton
Charles Genfan.....	Toledo
Adolph Edward Goodman.....	Akron
Charles Raymond Hanes.....	Lima
Fred Hildreth Holman.....	Springfield
Garrett Joseph Kane.....	Columbus
Thomas Anthony Kelly.....	Columbus
Ernest Frederick Keyerleber.....	Euclid
Wilbur Charles Krumm.....	Canton
Joseph Leichtner.....	Rochester, N. Y.
Perry Francis Martter.....	Columbus
Pearl Edward Masheter.....	Thurston
Frank James Murray.....	Lorain
Charles Ervin Nofer.....	Columbus
Russell Melvin Obert.....	Columbus
Arthur Alexis Olson.....	Elyria
Edgar Stinchcomb Pugh.....	Columbus
John Paul Rannels.....	Columbus
Adolph Harry Ritter.....	Columbus
John Allen Rousculp.....	Lima
Carroll Lear Smith.....	St. Paris
Morris Reinoehl Smith.....	Massillon
Olin Byrd Stout.....	Jackson
Theodore Wolfe.....	Cleveland

(Thirty-five candidates)

BACHELOR OF ELECTRICAL ENGINEERING

Lester Sauer Bernhard.....	Dayton
James Monroe Comly.....	Columbus
Cloyce Fay Dean.....	Toledo
William Tell Duncan.....	Dayton
John Elliott Durstine.....	Cleveland
Paul Griffith Edwards.....	Hillsboro
Russell Paul Egry.....	Hamilton
John Wilbur Emerson.....	Apple Creek
John Fies.....	Marion
Robert Hugh Fisher.....	Dayton
Russell Thomas Flora.....	Tippecanoe City
Lester Noble Forbes.....	Wellsville
Louis Denis Forward, B.M.E.....	Urbana
Lorenz John Fritz.....	Toledo
Emmet Green Gardner.....	London
*George Allen Griffin.....	Cleveland
Herman Lewis Hartzell.....	Miamisburg
Irving Adolph Heeb.....	Cincinnati
George Haverfield Herriek.....	Uhrichsville
Richard Daniel Hulsman.....	Willoughby
George Junior Johns.....	Quaker City
Robert Raymond Johnson.....	Washington C. H.
Otto Abner Keep.....	Dorset
Harold Ralph Lewis.....	Columbus
William Chamberlin Lincoln.....	Woodstock
Robert Olwine Loomis.....	Columbus

* Two Degrees

Orris McGinnis.....	Washington C. H.
Henry Theron Miller.....	Coshocton
John Montano, Jr.....	Rossford
Raymond Robert Murdock.....	Wellsville
Lawrence Sylvanus Charles Neeb.....	Lindsey
Harold Emanuel Nelson.....	McClure
Glenn McBride Perry.....	Jamestown
Charles Vinnedge Poling.....	Middletown
Max Rayburn.....	Green Camp
Byron David Redding.....	Tontogany
John Sullins Roscoe.....	Toledo
Philip Elias Rush.....	Columbus
Samuel Ellis Rush.....	New Straitsville
Henry Murray Schnerer.....	Cleveland
Floyd Kelley Shoemaker.....	Columbus
Harold Edward Steinmueller.....	Toledo
Fred William Thaiss.....	Toledo
Howard Allen Thurston.....	Columbus
Harold Wasson.....	Columbus
Howard Samuel Williams.....	Columbus
Hobert S. Winbigler.....	Shelby
John Chalmer Winegardner.....	Waynesfield
William Edward Winterhalter.....	Dayton
Elmer Carl Wise.....	Bellaire

(Fifty candidates)

BACHELOR OF MECHANICAL ENGINEERING

Ande Algot Anderson.....	Ashtabula Harbor
Elmer Lawrence Andrews, Jr.....	Lima
Arthur Kyle Beedle.....	Troy
Charles Hetrick Bell, B.A.....	Cambridge
Harper Gilbert Bitzer.....	Mt. Gilead
John Paul Bosch.....	Terre Haute, Ind.
Ralph L. Boyer.....	Sidney
Joseph Donald Church.....	Brinkhaven
William Philip Cook.....	Lakewood
Paul Harding Devaney.....	Columbus
Thomas Edward Dodds.....	Niagara Falls, N. Y.
Charles Dovalovsky.....	Cleveland
George Lansford Dunbar.....	Chillicothe
Bernard Beach Evans.....	Fleming
Frank Linville Fisher.....	Flushing
Walter Nelson Ford.....	Columbus
William Emory Genung.....	Madison
*George Allen Griffin.....	Cleveland
Cyril Walter Hammond.....	Columbus
Lewis Miller Headley.....	Columbus
Carl Henry Heldenbrand.....	North Canton
Robert Bruce Jackson.....	Columbus
Harold Dean Jones.....	Brinkhaven
Thomas John King (As of the Class of 1923).....	Columbus
Gerhard Gustav Martin Kuechle.....	Marysville
Carl Dennis Laughlin.....	Cambridge
Henry LaViers, Jr.....	Paintsville, Ky.
Louis Dickson Lutzenberger.....	Dayton
Arnold MacSpadden.....	Cleveland
John Edward Marek.....	Cleveland
Robert John Mathias.....	Cheviot
John Harold Miller.....	Alliance
Harold Matthew Moore.....	Woodsfield
Elmer Jacob Oswalt.....	Alliance
Sylvanus Allen Oviatt.....	Cleveland

* Two Degrees

Virgil Vernon Park.....	Akron
Luis Peresutti.....	Santa Fe, Argentina
Louis Ernest Pondy.....	Lorain
Sadi Santini.....	Santa Fe, Argentina
Merrill Davis Spurrier.....	Columbus
Charles Whitaker Staacke.....	Westerville
Fred Hanson Tibbetts, Jr.....	Columbus
Conrad William Traut.....	Sandusky
Eugene Marshal VanScoyk.....	Dayton
John Carl Varady.....	Alliance
Frank Ellis Wilson.....	Norwood
Paul Day Wright.....	Coshocton

(Forty-seven candidates)

BACHELOR OF METALLURGICAL ENGINEERING

Mahlon Kenneth Brintlinger.....	Columbus
Knight Charles Charlton.....	Columbus
Edwin Loy Hall.....	Cambridge
Robert Ernest Stafford.....	Poland

(Four candidates)

BACHELOR OF ENGINEERING IN MINING

Henry Charles Rose.....	Cleveland Heights
Francis Oliver Stull.....	Fostoria
George Edward Zeigler.....	Urbana

(Three candidates)

BACHELOR OF SCIENCE IN APPLIED OPTICS

Carl Alcott Cargill.....	Fairfield
Charles Roger Crist, B.A. (Wittenberg College).....	Springfield
Bernard Hensel.....	North Madison
Warder Jefferson Meranda.....	Springfield
Albert James Rowe.....	Fostoria
Orville Newton Sparrow.....	Columbus
Cyrus Hubert Stoner.....	Massillon

(Seven candidates)

COLLEGE OF LAW

Dean: JOHN JAY ADAMS

JURIS DOCTOR

Wayne Edwin Stichter, B.A.....	Bradford
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(One candidate)

BACHELOR OF LAWS

Ralph Meredith Alspach, A.B. (Heidelberg University).....	Thornville
Eugene Barney Bacher, A.B. (Heidelberg University).....	Dayton
Louis Damarin Bannon.....	Portsmouth
Herbert Samuel Beane.....	Arcanum
Norwood Everson Blake.....	Columbus
*Owen King Blythe.....	Franklin
Robert Rownd Booton, B.A.....	Columbus
Paul Francis Burke.....	Youngstown
Peter Paul Catri.....	Huron
Michael Halter Conrad, B.S. (Mount Union College).....	East Sparta
Clayton Edward Crafts.....	Akron
James Davis.....	East Liverpool
Edward Joseph Demson, B.A.....	Lakewood
George Lewis Dixon.....	Coal Run
Paul Gillilan Eckelberry, B.Sc. in Bus. Adm.....	Columbus
Norman Charles Ervin.....	Jackson
Chester Perl Fitch.....	Portsmouth
Paul Anthony Flynn.....	Tiffin

* Two Degrees

James Mannington Fogle.....	Columbus
Kenneth Paul Fox.....	Bellevue
John Perry Geiger.....	Kenton
Marion Finney Graven.....	Wooster
Grace Elizabeth Hartz.....	Akron
Charlotte Armine Hogan, B.A. (Trinity College).....	Columbus
Henry Lawrence Holden.....	Columbus
Milford Leon Landis.....	Columbus
David Tod Gilliam Lum, B.A.....	Columbus
Raymond Johnson McKibbin, B.A.....	Youngstown
Winfred Lycurgus Martindale, B.A.....	West Milton
Laura Helen Michalske, B.A. (Western Reserve University).....	Cleveland
William Lee Montgomery, B.A., B.Sc. in Edu.....	Columbus
Joseph Vivian Ralston, B.L. (Princeton University).....	Columbus
Clayton Walpool Rose.....	Cecil
Charles Raymond Ross.....	Columbus
Norman Clarence Schwenk, B.A.....	Cleveland
Cecil Kay Scott.....	Salem
Lewis Andrew Seikel, B.A.....	Dover
David Philip Sheinbart.....	Cleveland
Edgar Allen Silbaugh.....	Lancaster
Theodore Stevenson, A.B. (Ohio Wesleyan University).....	Canal Winchester
Lucile Todd, B.A.....	Columbus
Homer Trantham.....	Columbus
William Gustav Wandel.....	Lima
Grant Plibern Ward, B.A.....	Columbus
Charles Russell Younger, B.A.....	Celina

(Forty-five candidates)

COLLEGE OF MEDICINE

Dean: EUGENE McCAMPBELL

DOCTOR OF MEDICINE

Robert John Armbrrecht, B.Sc.....	Wheeling, W. Va.
Robert Ellsworth Baker, B.Sc.....	Columbus
Roland Devere Bateman, B.Sc.....	Zanesville
Jay Durkee Bradish, B.Sc.....	Wakeman
Ord William Burkholder, B.Ped. (Tri-State College), B.A.....	Wauseon
Harry Ernest Caldwell, B.A.....	Columbus
Harold Allen Campbell, B.Sc.....	Newark
Harry Everett Chalker, B.Sc.....	Garrettsville
Harold Warner Davis, B.Sc.....	Rio Grande
Lewis Edwin Dougherty, B.A.....	Greentown
Leland Stanford Evans, B.Sc.....	Columbus
Ephriam McKinley Feingold, M.D. (Middlesex College).....	Columbus
Israel Aaron Fine, B.Sc.....	Steubenville
Richard Lincoln Hane, B.Sc.....	Napoleon
Jesse Myron Hays, B.Sc.....	Columbus
Raymond Thomas Holzbach, B.Sc.....	Niles
Iolas Melitus Huffman, B.A.....	Chandlersville
Grace Maurine Jordan.....	Columbus
Kenneth Joseph Kemp, B.Sc.....	Columbus
Theodore J. Charles Kiess, B.Sc.....	Defiance
Cyrus Ernest Kruse, B.A.....	Columbus
John William Laufersweiler, B.Sc.....	Minster
Robert Mayclim Lemmon, B.Sc.....	Harrisville
Vernon Scott Lilly, B.Sc.....	Circleville
Floyd Schiefer Meck, A.B. (Oberlin College).....	Cleveland
Emil Julius Meekstroth, B.Sc.....	Botkins
Charles Werner Mueller, B.Sc.....	Columbus
Cyril Edward Myers, B.Sc.....	Bucyrus
Harry Clay Powelson, B.Sc.....	Etna
Harry Louis Reinhart, B.A.....	Columbus

*Thomas Dominicus Santurello.....	Columbus
John Egnew Schrider, B.Sc.....	Bryan
Edwin Andrew Seifert, B.Sc.....	Wheeling, W. Va.
*Walter Erwin Smith.....	Columbus
Addie D. Stanford.....	Columbus
Murrel Hodges Turton.....	Lebanon
John Morrow VanDyke, B.Ph. (Mt. Union College).....	Hammondsville
Wilford Chauncey Wood.....	Wilmington
John Allison Worrell, Jr., A.B. (University of Michigan).....	Columbus

(Thirty-nine candidates)

COLLEGE OF PHARMACY

Dean: CLAIR ALBERT DYE

BACHELOR OF SCIENCE IN PHARMACY

Karl Norwood Emmons.....	Minerva
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(One candidate)

COLLEGE OF VETERINARY MEDICINE

Dean: DAVID STUART WHITE

DOCTOR OF VETERINARY MEDICINE

Howard Mack Bonifield.....	Warren, Ind.
Thomas Benjamin Burris.....	Smithfield
Raymond Chester Coulson.....	Barron, Wis.
John M. Hendrickson.....	Tunbridge, N. Dak.
Maynard E. Kilpatrick.....	New Carlisle
Roy Virgil Loudon.....	Columbus
Arthur Alexander McMurray.....	Vina, Ala.
Harold Melgaard.....	St. Paul, Minn.
Andrew Clarence Merrick.....	Columbus
Victor Henry Miller.....	Linville, Va.
Leonard Henry Schmidt.....	New Bremen
Tarjie Steenerson.....	Climas, Minn.
Arthur Rochus Theobald.....	Cincinnati
Elwood Franklin Tittle.....	McComb
Hugo Baldonado Tugbang.....	Barotac Viejo, P. I.
Fred Von Kaenel.....	Bucyrus
Dayton McRae Warren.....	Milton, Ind.
Orville Grant Wiseman.....	Tippecanoe City

(Eighteen candidates)

PROFESSIONAL CERTIFICATES

CERTIFICATE IN PUBLIC-HEALTH NURSING

Anna Hodge Rumer, R.N.....	Columbus
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(One candidate)

CERTIFICATE OF GRADUATE NURSE

Georgiana Barga.....	Shelby
Viola Kinnison Brown.....	Kirkersville
Irene Horr Ellison.....	Columbus
Maude Marie Hugus.....	Rawson
Nellie Pauline Justice.....	Dover
Mildred Naomi Sutter.....	Shelby
Edith Lucille Westervelt.....	Columbus
Edna Ethel Wright.....	Dover
Ferne Alma Zetty.....	Columbus

(Nine candidates)

CERTIFICATE OF PHARMACEUTICAL CHEMIST

Abe Edward Abraham.....	Columbus
Clara Margaret Beck.....	Wadsworth
Arthur Bennett.....	Youngstown
Ralph Berg.....	Cleveland
Theodore Bernhard Camin.....	Cleveland
Russel James Carlisle.....	Zanesville
Earl Raymond Clapper.....	Bath
Irwin Earl Dann.....	Cleveland
Paul Newton Ebert.....	Galion
Ennis Edmund Edwards.....	Chillicothe
Emil Solomon Epstein.....	Toledo
Kirtley Wayne Ervin.....	Middletown
Harry Morgan Evans.....	Youngstown
Edwin John Fellows.....	Lima
Harry Gershun First.....	Cleveland
Carl Austin Frode.....	Lakewood
Roy Russell Gallagher.....	Chillicothe
Philip Glickman.....	Cleveland
Charles Hammer.....	Cleveland
John Franklin Henry.....	Cambridge
Howard Arthur Hines.....	Van Wert
Vaughan Hottotian.....	Columbus
Frank John Hotze.....	Reading
Frank Willis Hunter.....	Lima
James Ellery Jackson.....	Batavia
Clifford Saunders Jones.....	Canton
Edward John Juchem.....	North Ridgeville
James Augustus Edward Kern.....	Chillicothe
Samuel Levine.....	Cleveland
Vernon Albert McCauley.....	Columbus
Harry Earnest Montgomery.....	Warren
Daniel Carson Morrison, B.S. (Wilberforce College).....	Cincinnati
Florence Marie Moyer.....	Clyde
Bernard Murstein.....	Cleveland
Daniel Harold Muskoff.....	Navarre
Harry Keadle Park.....	Congo
Louis Protus.....	Cleveland
Dana Orr Purdum, B.A. (Ohio Wesleyan University).....	Chillicothe
Bessie Marian Reed.....	Columbus
Sam Rosen.....	Columbus
Henry Rosenkovitz.....	Cleveland
Irving Rubin.....	Cleveland
Josephus Alosius Rybicki.....	Cleveland
Eugene Herman Sarbin.....	Cleveland
Leo Schwartz.....	Cleveland
Samuel Segal.....	Youngstown
Paul Louis Shumaker.....	Galion
Carl Siegler.....	Cleveland
James Martin Smith.....	Williamsport
Milton Soskin.....	Canton
Adolph Stern.....	Cleveland
Max Harmon Throckmorton.....	Columbus
Donald Coyle VanDyke.....	Columbus
Leota Morehead VanDyke.....	Columbus
Emil Frank Votava.....	Cleveland
Marvin Roy Wahl.....	Cleveland
Abraham Benjamin Waldman.....	Cleveland
Manuel Weiner.....	Toledo
Roy V. Whiston.....	Columbus
Bernard Francis Wietzel.....	Dayton
Samuel Wohl.....	Cleveland

(Sixty-one candidates)

SUMMARY OF DEGREES AND CERTIFICATES

ANNUAL JUNE COMMENCEMENT

Graduate School.....	78
College of Agriculture.....	131
Applied Optics.....	7
College of Arts, Philosophy, and Science.....	205
College of Commerce and Journalism.....	125
College of Dentistry.....	57
College of Education.....	130
College of Engineering.....	176
College of Law.....	46
College of Medicine (39 degrees) (10 certificates).....	49
College of Pharmacy (1 degree) (61 certificates).....	62
College of Veterinary Medicine.....	18
	<hr/>
Degrees and certificates—Women.....	1084
Degrees and certificates—Men.....	349
	<hr/>
	1084
Candidates for degrees and certificates.....	1071
Candidates receiving two degrees.....	13
	<hr/>
	1084

SUMMER QUARTER—1923

Graduate School.....	43
College of Agriculture.....	15
College of Arts, Philosophy, and Science.....	35
College of Commerce and Journalism.....	19
College of Dentistry.....	7
College of Education.....	27
College of Engineering.....	6
College of Medicine.....	4
	<hr/>
	156
Degrees—Women.....	45
Degrees—Men.....	111
	<hr/>
	156
Candidates for degrees.....	155
Candidates receiving two degrees.....	1
	<hr/>
	156

AUTUMN QUARTER—1923

Graduate School.....	19
College of Agriculture.....	11
College of Arts, Philosophy, and Science.....	13
College of Commerce and Journalism.....	16
College of Education.....	22
College of Engineering.....	7
College of Law.....	3
College of Medicine.....	3
College of Pharmacy (certificates).....	7
College of Veterinary Medicine.....	3
	<hr/>
	104
Degrees and certificates—Women.....	34
Degrees and certificates—Men.....	70
	<hr/>
	104

Candidates for degrees and certificates.....	103
Candidates receiving two degrees.....	1

104

WINTER QUARTER—1924

Graduate School.....	16
College of Agriculture.....	29
Applied Optics.....	1
College of Arts, Philosophy, and Science.....	21
College of Commerce and Journalism.....	22
College of Education.....	14
College of Engineering.....	10
College of Law.....	3
College of Pharmacy (certificates).....	14

130

Degrees and certificates—Women.....	32
Degrees and certificates—Men.....	98

130

Candidates for degrees and certificates.....	129
Candidates receiving two degrees.....	1

130

GRAND TOTAL FOR THE YEAR

Graduate School.....	156
College of Agriculture.....	186
Applied Optics.....	8
College of Arts, Philosophy, and Science.....	274
College of Commerce and Journalism.....	182
College of Dentistry.....	64
College of Education.....	193
College of Engineering.....	199
College of Law.....	52
College of Medicine (46 degrees) (10 certificates).....	56
College of Pharmacy (1 degree) (82 certificates).....	83
College of Veterinary Medicine.....	21

1474

Degrees and certificates—Women.....	460
Degrees and certificates—Men.....	1014

1474

Candidates for degrees and certificates.....	1458
Candidates receiving two degrees.....	16

1474

RELIGIOUS CENSUS OF STUDENTS—1923-1924

Armenian	1	Evangelical	110
Baptist	338	Friends	21
Brethren	13	Greek Catholic.....	2
Bulgarian	1	Greek Orthodox.....	7
Catholic	606	Independent Protestant.....	16
Christian	196	International Bible Student.....	4
Christian Science.....	94	Jewish	484
Church of Christ.....	241	Latter Day Saints.....	3
Church of God.....	4	Lutheran	456
Community	30	Mennonite	3
Congregational	350	Methodist	2671
Episcopal	358	Free Methodist	3

RELIGIOUS CENSUS OF STUDENTS—1923-1924—(Continued)

Methodist Protestant.....	57	Reform	142
Southern Methodist.....	1	Seventh Day Adventist	6
Moravian	7	Theosophical Society.....	1
Nazarene	1	Unitarian	16
New Thought	2	United Brethren.....	159
Pentecostal	1	United Presbyterian.....	85
Presbyterian.....	1309	Universalist	29
Progressive Brethren.....	3	None Given.....	1274
Protestant	46		
Protestant Scientist.....	1	Total.....	9154

CENSUS OF OCCUPATION OF PARENT OR GUARDIAN—1923-1924

Accountants, clerks, bookkeepers, etc.....	222	Insurance	119
Advertising	11	Interpreter	2
Architects, draftsmen.....	25	Inventor	1
Army and navy.....	9	Iron, steel, and metal workers and molders	86
Artisans	72	Janitors	12
Attorneys, judges and statesmen.....	297	Jewelers	32
Authors	3	Jobbers	2
Aviator	1	Junk dealers.....	11
Bakers and confectioners.....	30	Laborers	59
Bankers	95	Laundrymen	6
Barbers	31	Lecturers	5
Blacksmiths	14	Librarians	2
Book Binders.....	6	Liverymen and teamsters.....	5
Breeder of silver foxes.....	2	Livestock dealers.....	26
Brokers	27	Machinists	83
Business executives, managers, superintendents, secretaries, etc.....	352	Manufacturing	156
Business	65	Mechanics	83
Butchers and meat dealers.....	32	Merchants	523
Carpenters	118	Metallurgists	1
Chauffeurs	1	Millers	21
Chefs and cooks.....	11	Mine operators and employees.....	45
Chemists	9	Musicians and artists.....	17
Chiropodists	2	Oil producers and dealers.....	57
Clergymen	122	Opticians, optometrists, and oculists.....	15
Coal and Ice Dealers	39	Osteopaths and chiropractors.....	5
Contractors and builders.....	228	Peddlers	5
Dairymen	32	Photographers	10
Decorators and painters.....	54	Physicians, surgeons, and nurses.....	227
Dentists	58	Plasterers	5
Detectives	4	Plumbers	30
Druggists and pharmacists.....	68	Potters	10
Dry cleaning.....	10	Printers and publishers.....	53
Editors and newspaper men.....	38	Radio operator.....	1
Electricians	27	Railway, lake, river, and street railway officials and employees.....	250
Engineers (civil, mechanical, etc.).....	99	Real estate.....	154
Farmers and ranchers.....	1246	Retired	255
Fishermen	2	Salesmen and women.....	327
Florists, gardeners, nurserymen.....	57	Students	4
Foremen	83	Surveyors	3
Garage owners and repairing.....	26	Teachers, professors, and school officials..	75
Glass workers.....	9	Tailors and seamstresses.....	77
Government, State, County, and Municipal employees	280	Telegraph and telephone officials and operators	27
Grain, hay, and lumber dealers.....	70	Theater	10
Grocers	119	Tool makers.....	13
Guide	1	Transfer and storage.....	13
Hotel and restaurant owners and employees	32	Undertakers and embalmers.....	13
Inspectors	31	Veterinarians	12
		Watchmen	10

CENSUS OF OCCUPATION OF PARENT OR GUARDIAN—1923-1924—(Continued)

Wholesale dealers.....	46	None given or deceased.....	1289
Y. M. and Y. W. C. A. and social workers	19		
Mother (giving no occupation.....)	671	Total.....	9154

ENROLLMENT IN OHIO BY COUNTIES—1923-1924

Adams	11	Greene	36	Muskingum	99
Allen	71	Guernsey	63	Noble	13
Ashland	27	Hamilton	104	Ottawa	29
Ashtabula	56	Hancock	31	Paulding	21
Athens	30	Hardin	34	Perry	40
Auglaize	47	Harrison	26	Pickaway	69
Belmont	87	Henry	12	Pike	17
Brown	9	Highland	40	Portage	52
Butler	58	Hocking	33	Preble	28
Carroll	13	Holmes	19	Putnam	26
Champaign	47	Huron	45	Richland	48
Clark	78	Jackson	32	Ross	65
Clermont	22	Jefferson	76	Sandusky	39
Clinton	25	Knox	51	Scioto	59
Columbiana	69	Lake	38	Seneca	48
Coshocton	43	Lawrence	29	Shelby	18
Crawford	68	Licking	108	Stark	144
Cuyahoga	816	Logan	36	Summit	117
Darke	63	Lorain	99	Trumbull	73
Defiance	19	Lucas	142	Tuscarawas	71
Delaware	57	Madison	56	Union	39
Erie	62	Mahoning	142	Van Wert.....	28
Fairfield	107	Marion	56	Vinton	7
Fayette	35	Medina	36	Warren	11
Franklin	3411	Meigs	23	Washington	46
Fulton	32	Mercer	30	Wayne	47
Gallia	26	Miami	62	Williams	40
Geauga	15	Monroe	29	Wood	51
		Montgomery	191	Wyandot	26
		Morgan	23		
		Morrow	17	Total.....	8499

ENROLLMENT BY STATES AND FOREIGN COUNTRIES—1923-1924

Alabama	10	Iowa	5	Oklahoma	10
Argentine Republic....	5	Japan	3	Orange Free State....	2
Arizona	1	Kansas	5	Oregon	1
Arkansas	1	Kentucky	27	Pennsylvania	85
Armenia	3	Korea	2	Peru	1
California	8	Louisiana	6	Philippine Islands....	16
Canada	7	Macedonia	1	Porto Rico.....	2
China	44	Maryland	6	Rhode Island.....	1
Colombia	3	Massachusetts	14	Rumania	1
Colorado	6	Mexico	1	South Carolina.....	3
Connecticut	2	Michigan	30	South Dakota.....	2
District of Columbia....	9	Minnesota	3	Tennessee	2
Dominican Republic....	1	Mississippi	1	Texas	9
Florida	6	Missouri	12	Utah	3
Georgia	6	Montana	1	Vermont	2
Greece	1	New Hampshire.....	3	Virginia	8
Haiti	1	New Jersey.....	11	Washington	1
Hawaii	3	New Mexico.....	2	West Virginia.....	90
Idaho	1	New York.....	36	Wisconsin	4
Illinois	25	North Carolina.....	5	Wyoming	3
India	1	North Dakota.....	3		
Indiana	88	Ohio	8499	Total.....	9154